

FIG. 1

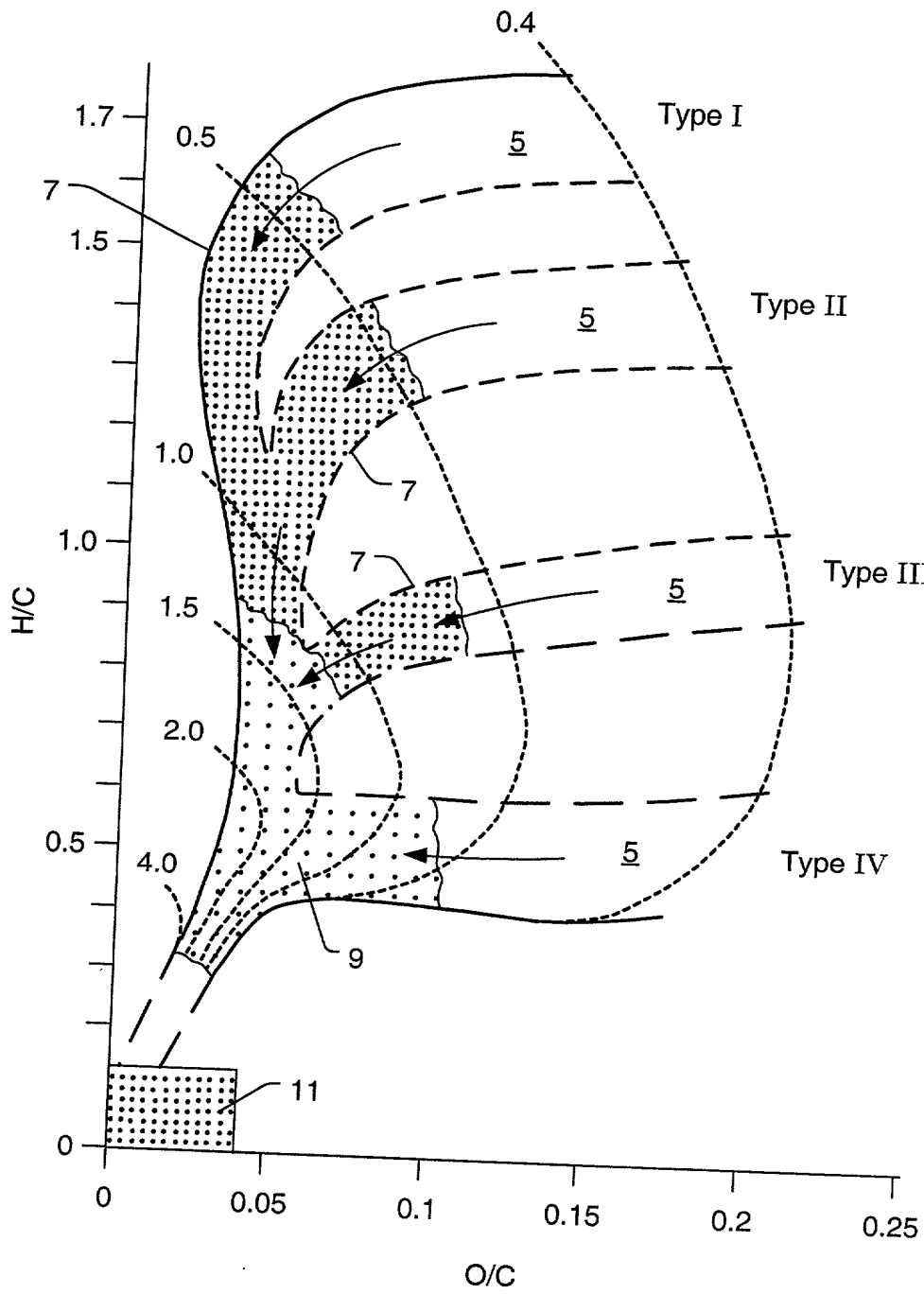


FIG. 2

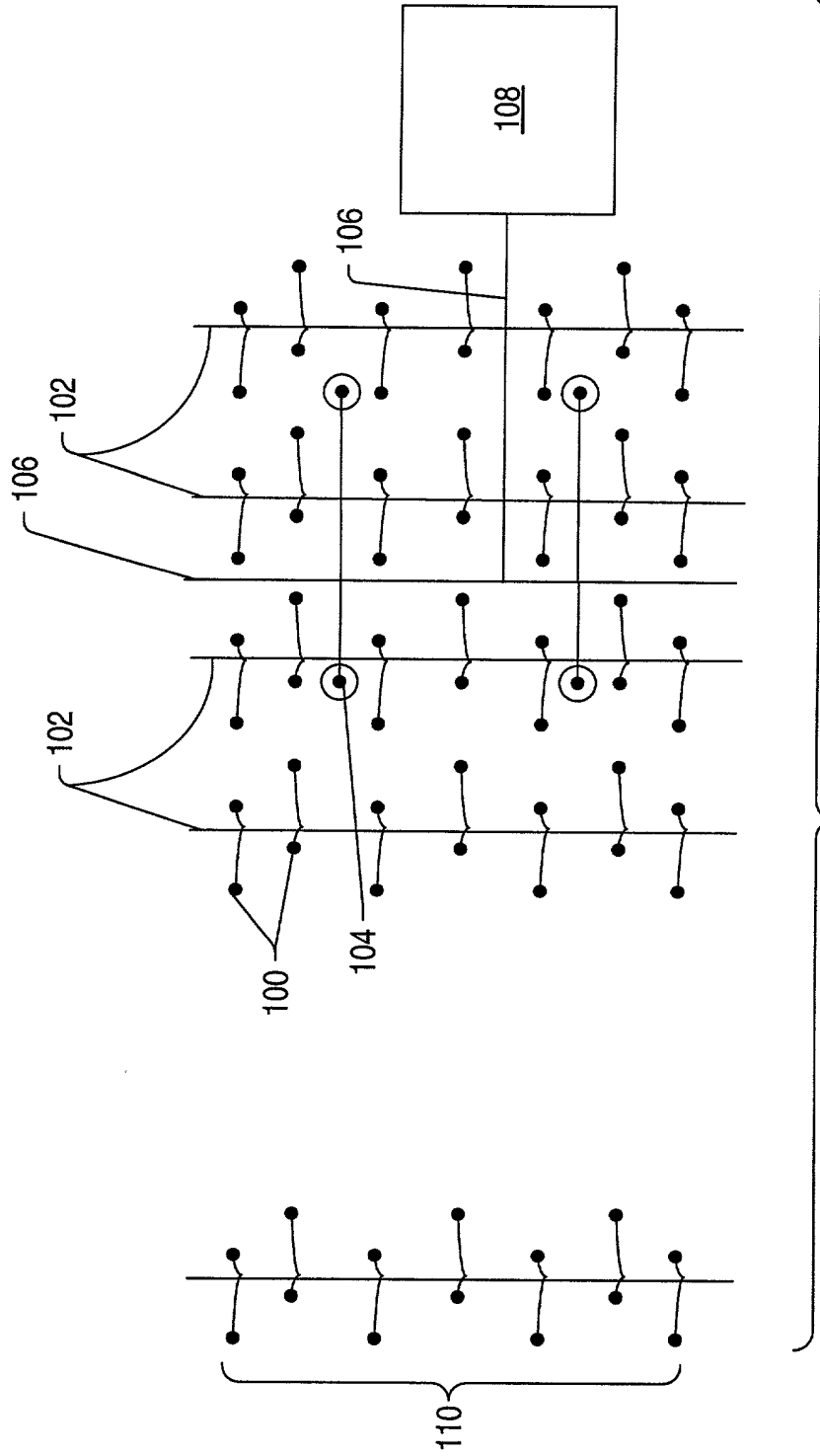


FIG. 3

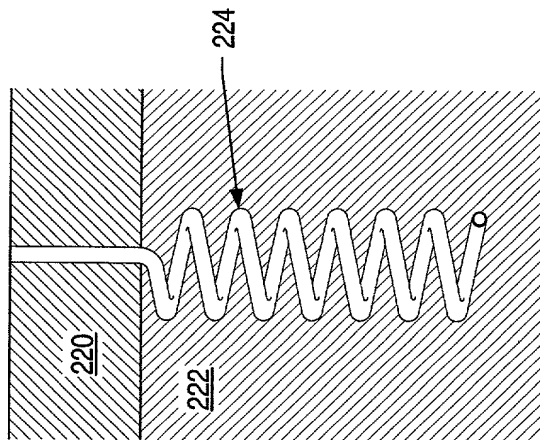


FIG. 3a

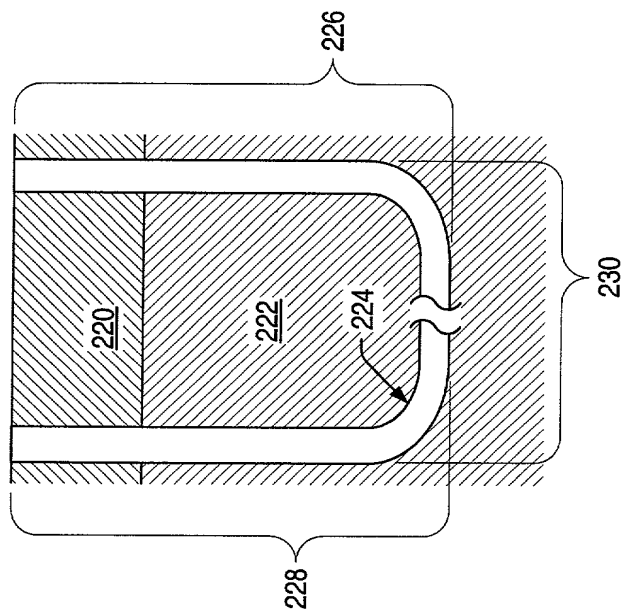


FIG. 3b

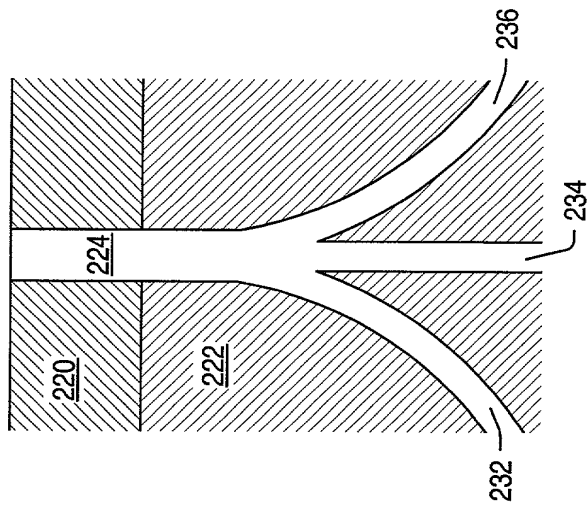
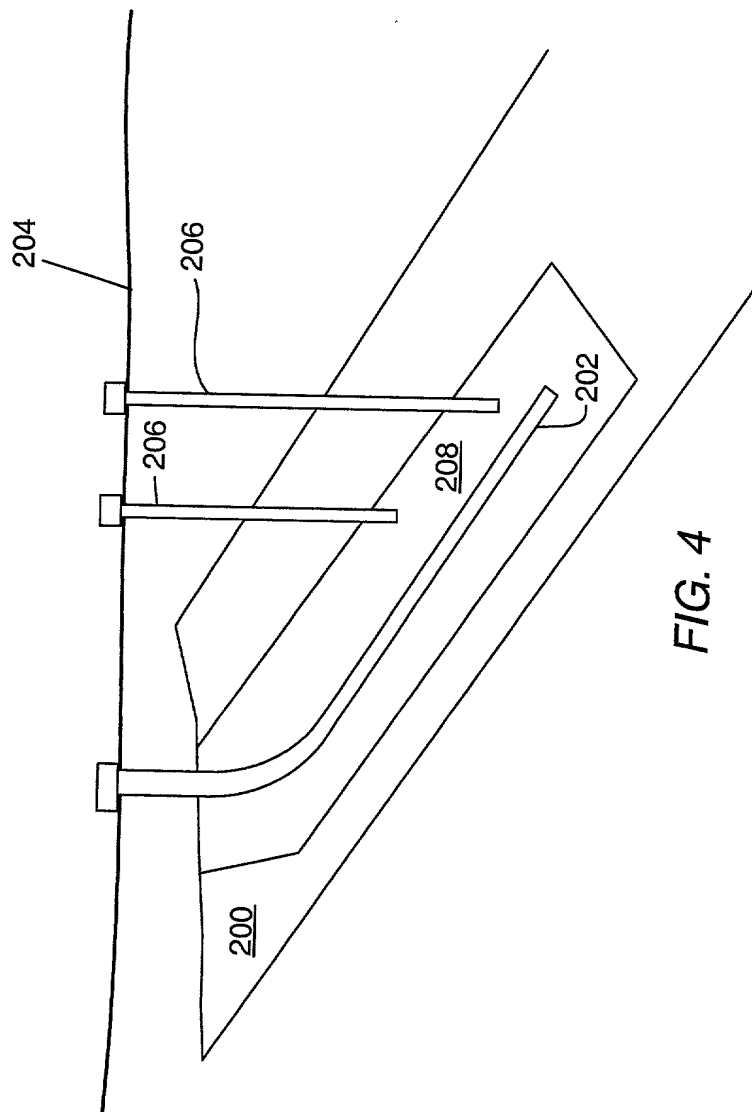
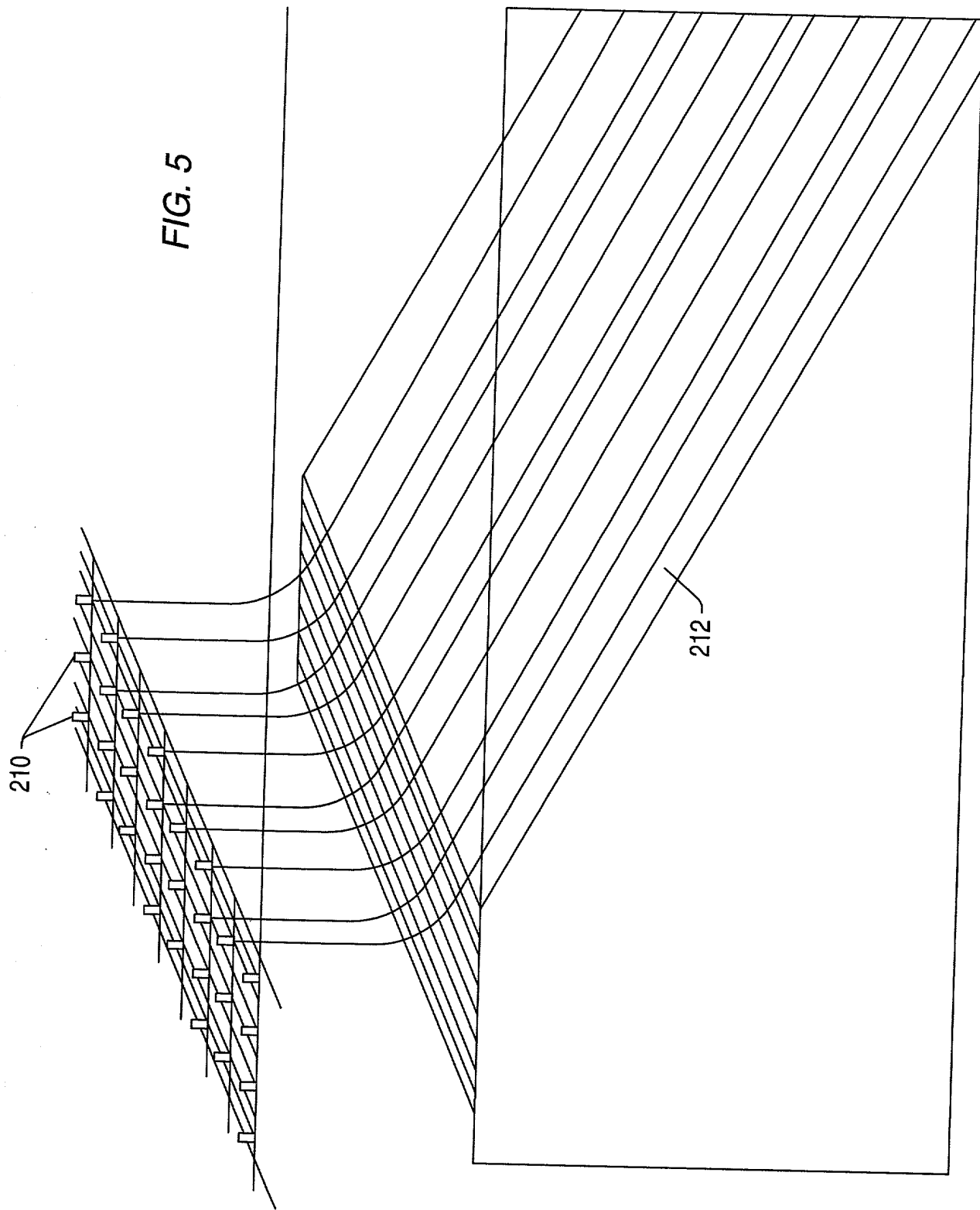


FIG. 3c





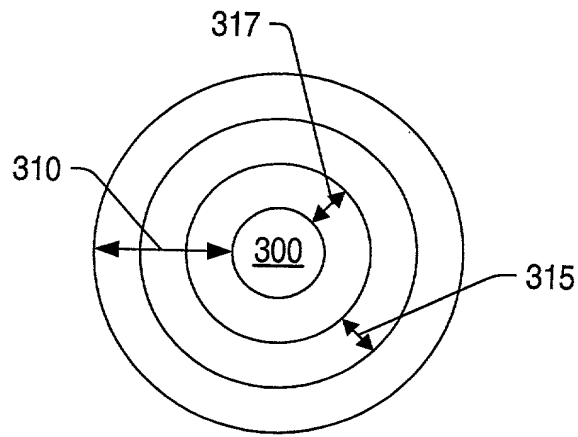


FIG. 6

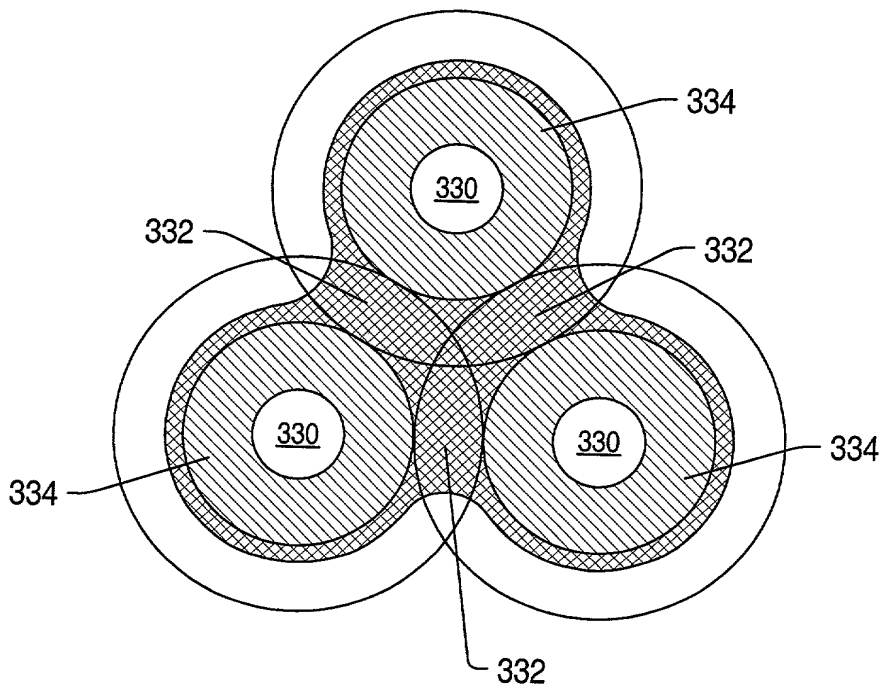


FIG. 7

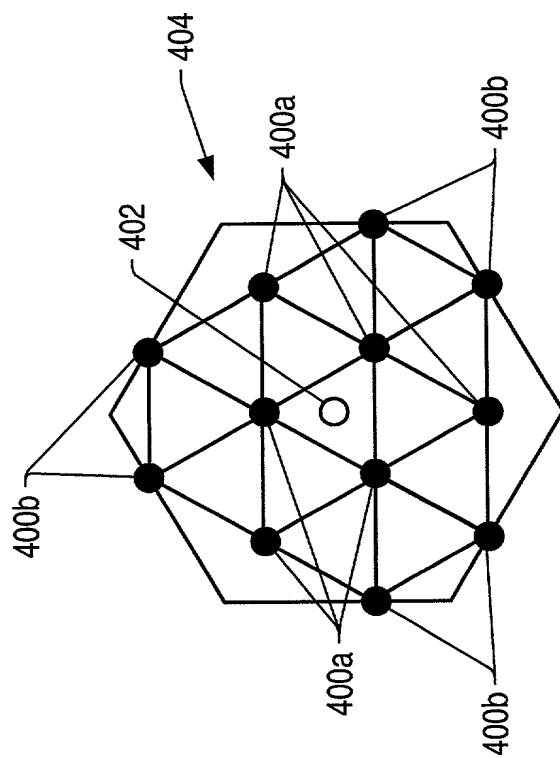


FIG. 9

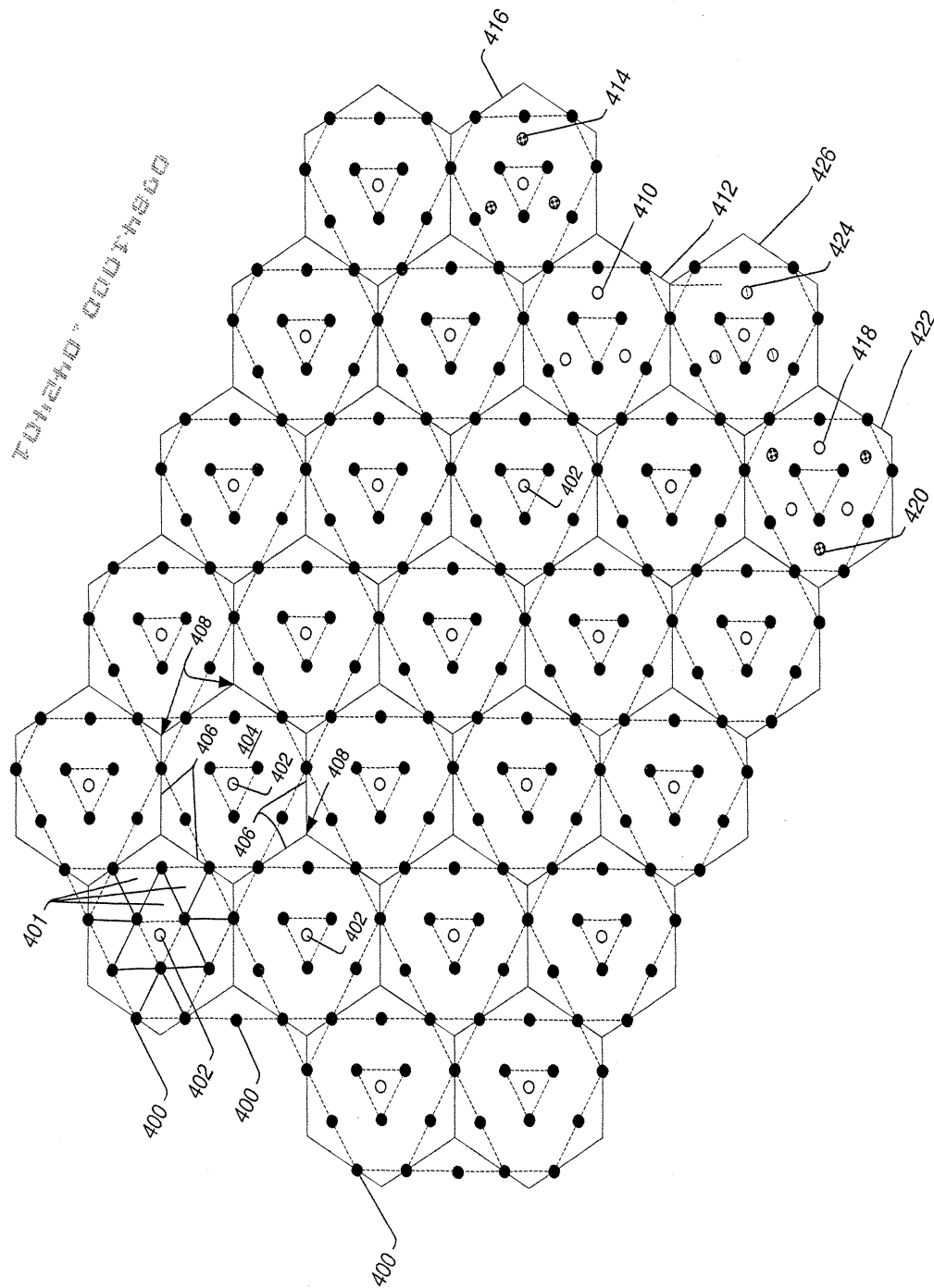


FIG. 8

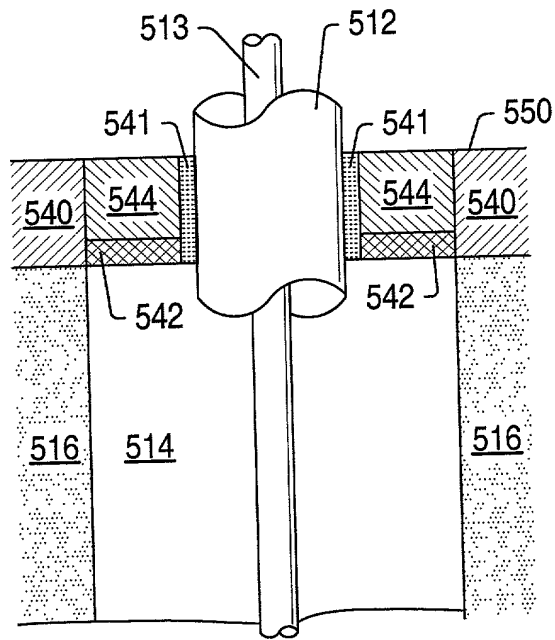


FIG. 11

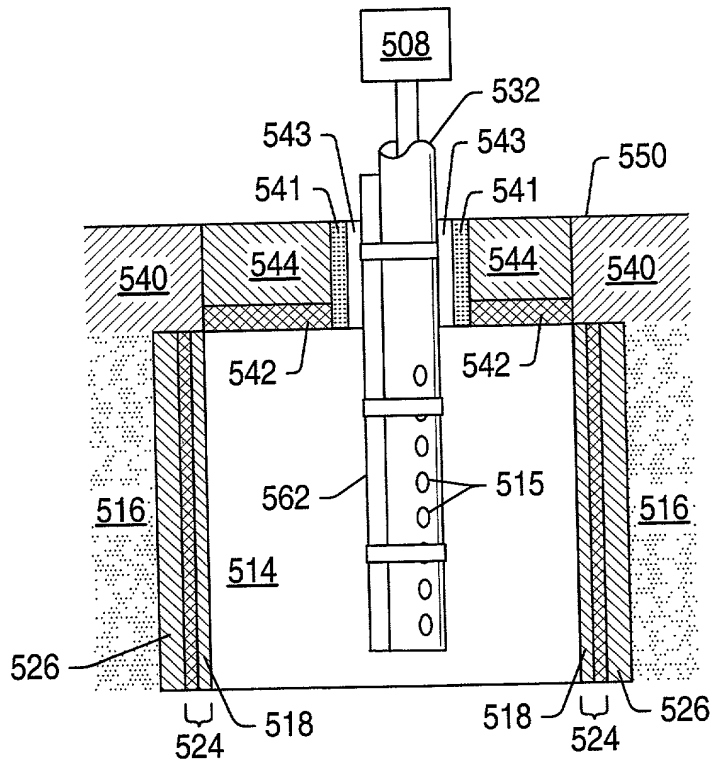


FIG. 12

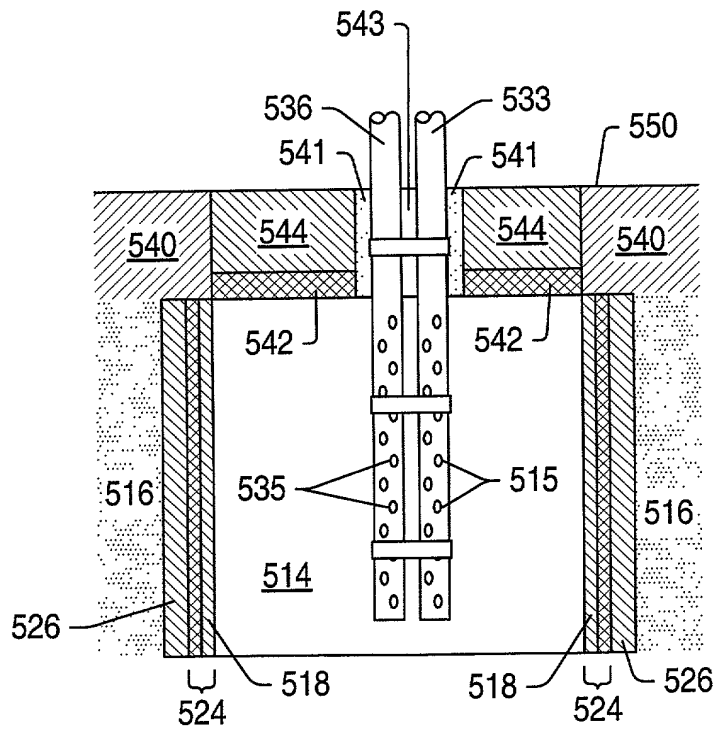


Fig. 13

09841000 042401

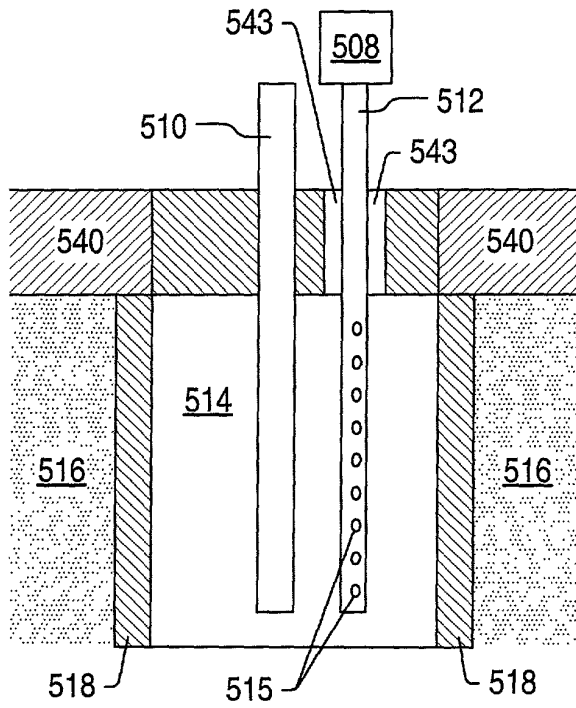


FIG. 14

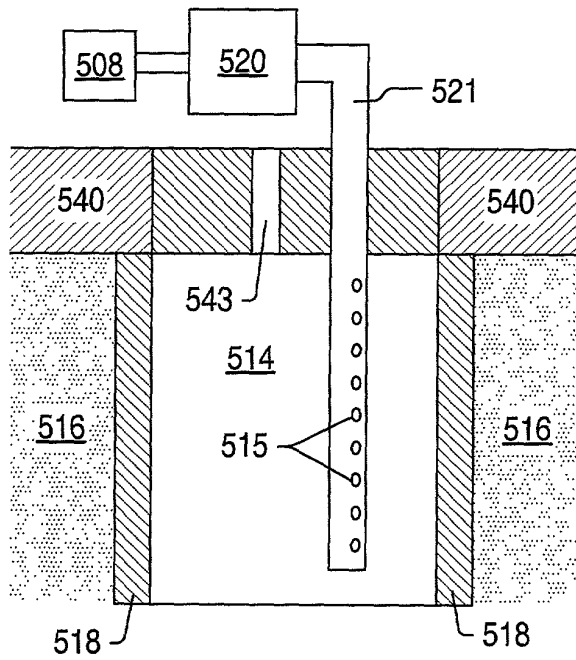


FIG. 15

09841000 042401

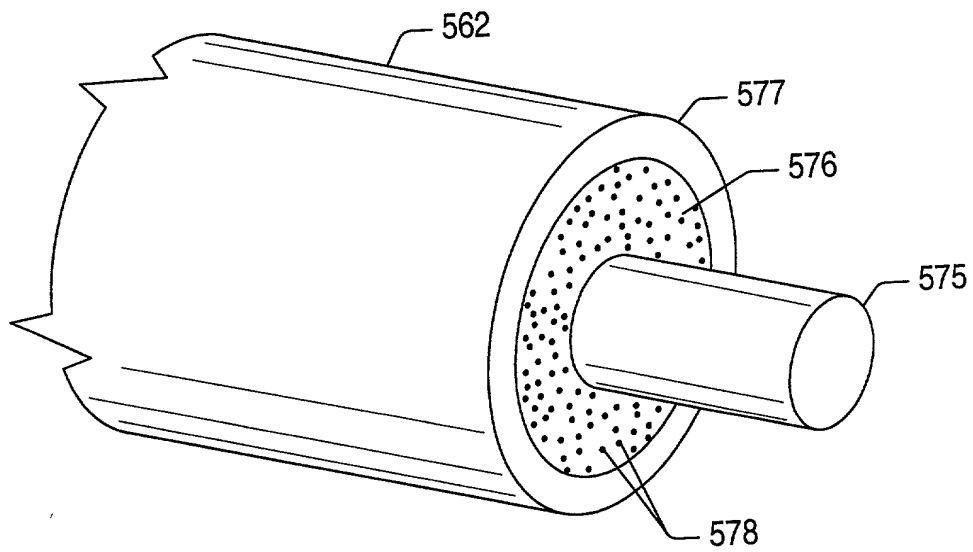


FIG. 16

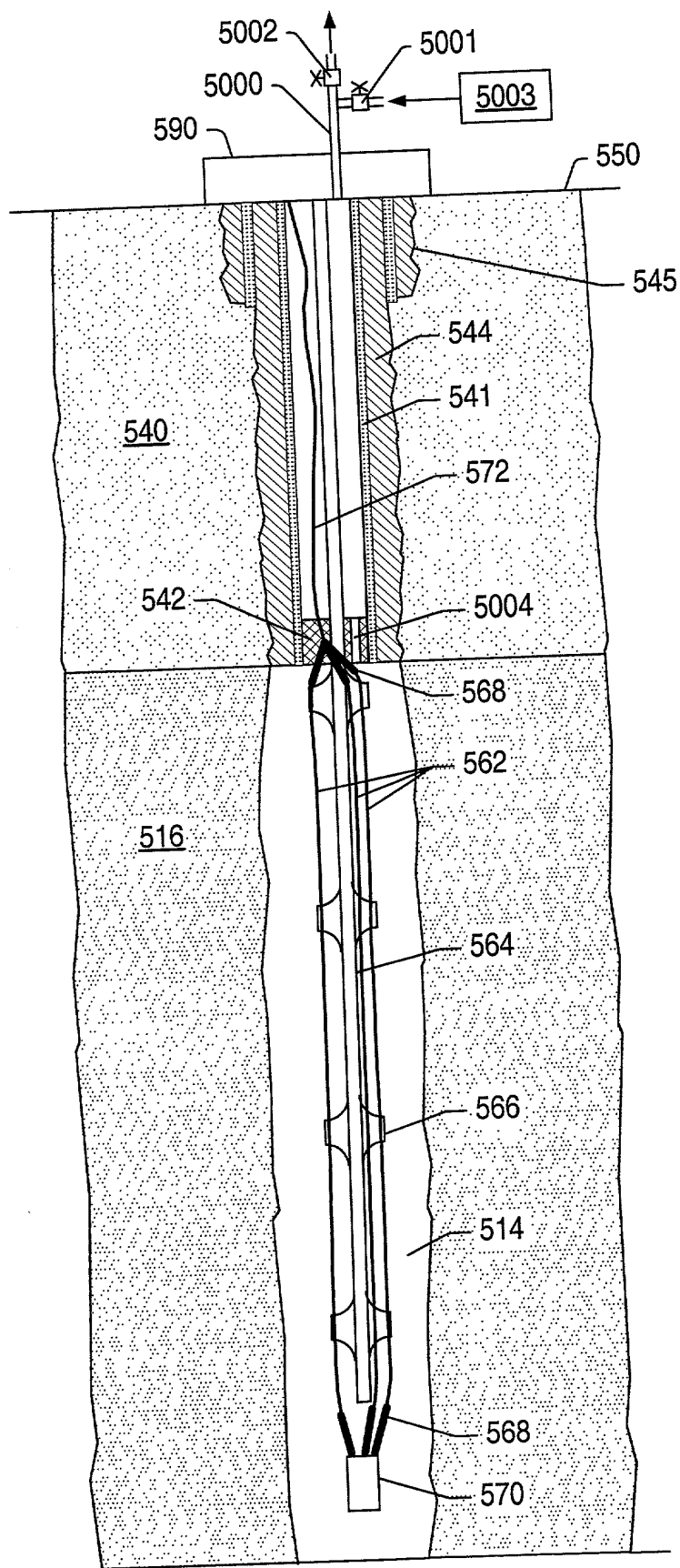


FIG. 17

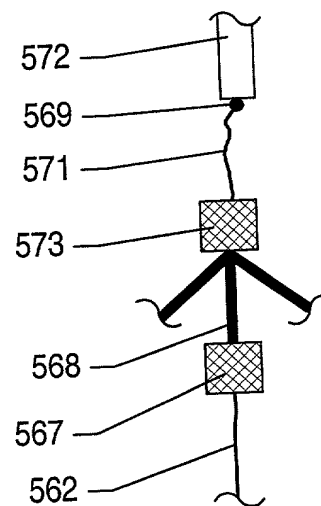


FIG. 17A

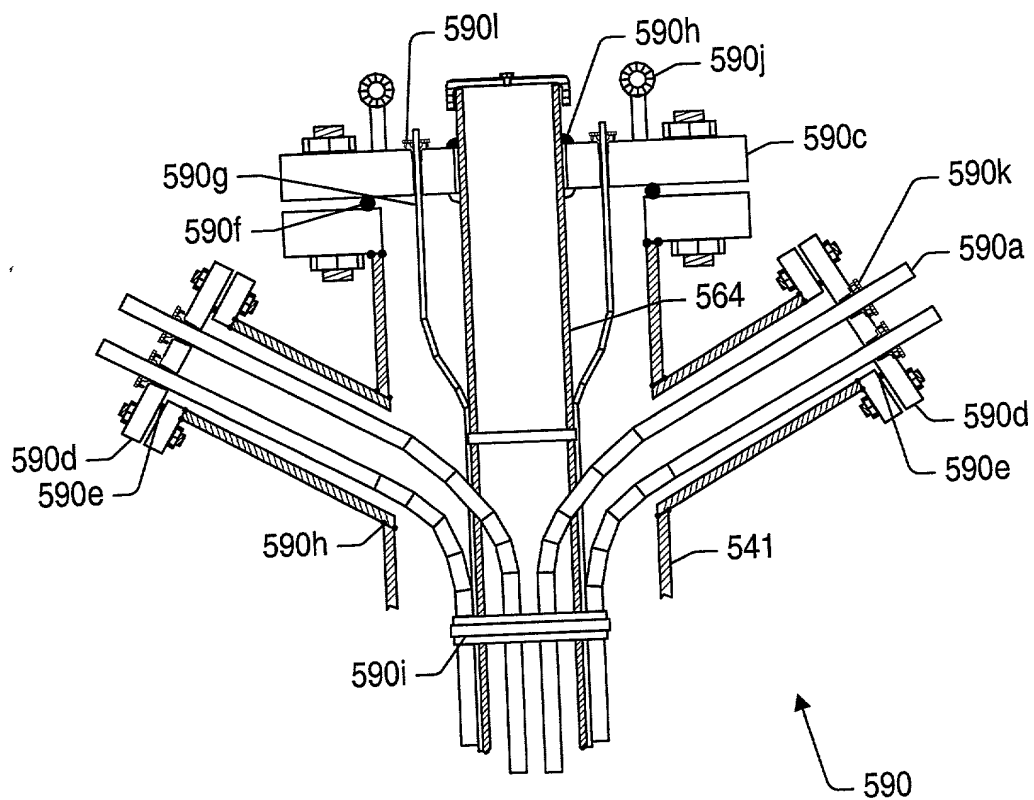


FIG. 18

104240" 000T4860

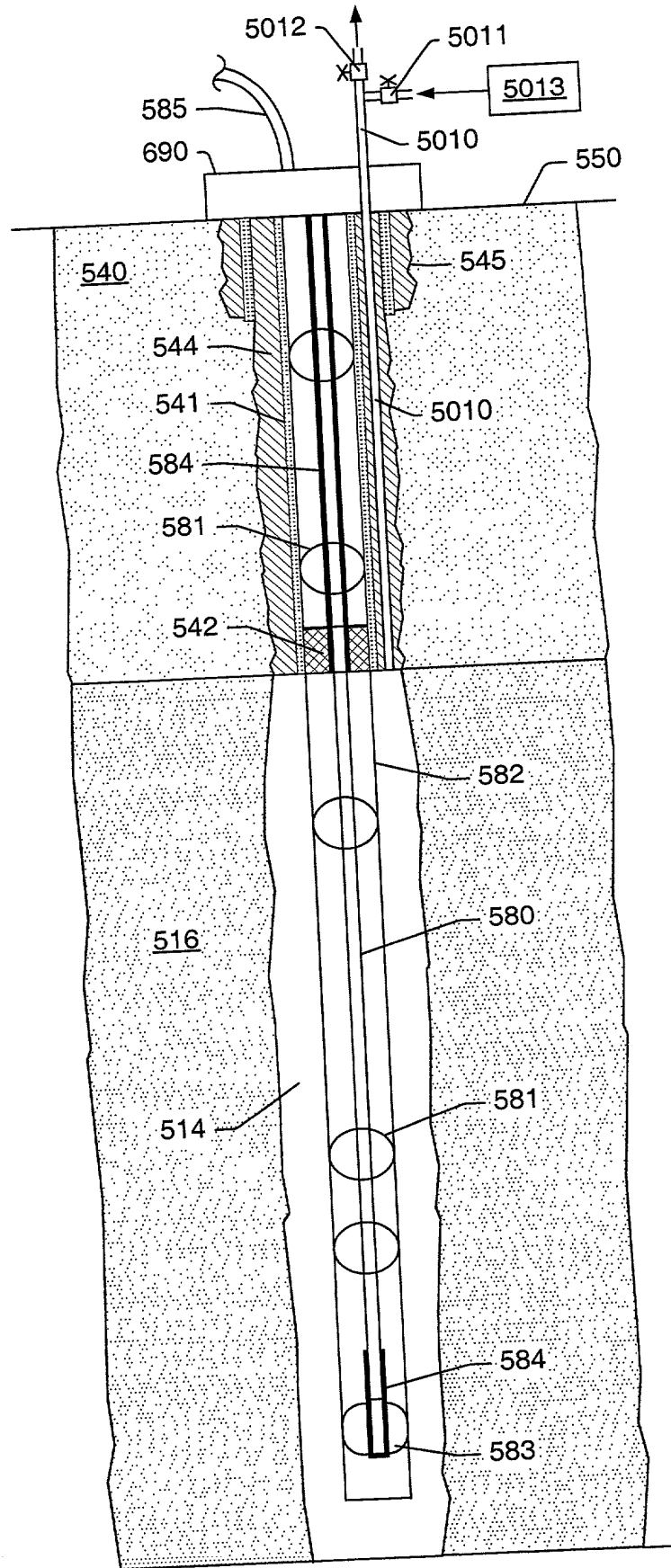


FIG. 19

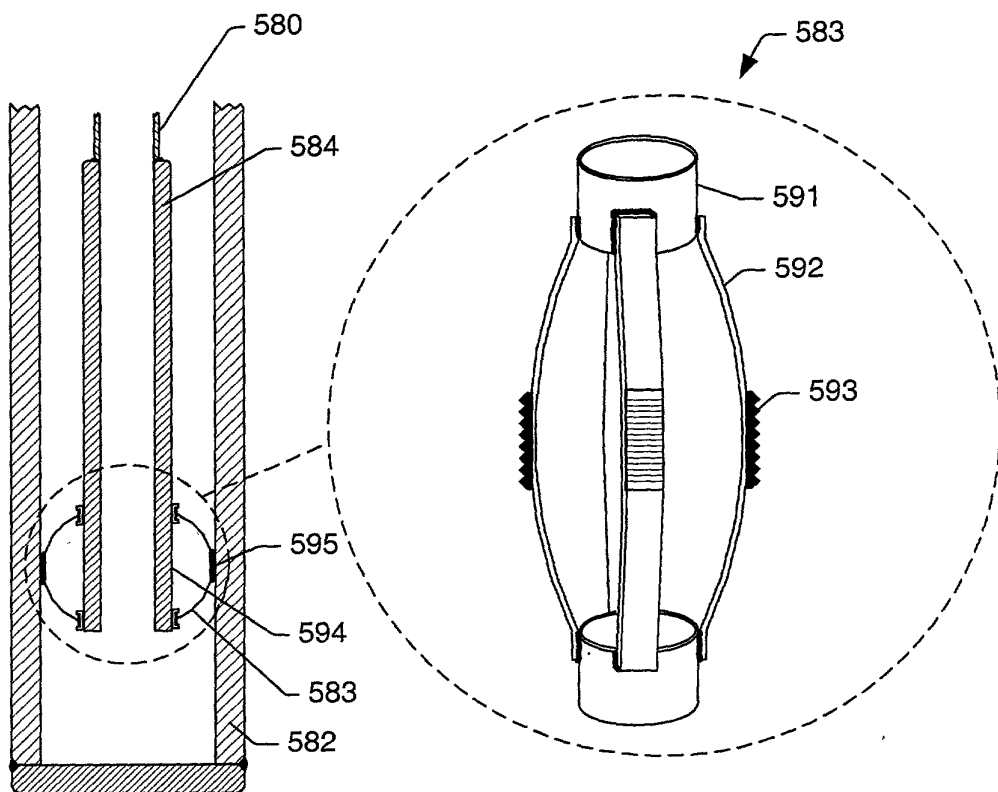


FIG. 20

05341000 042401

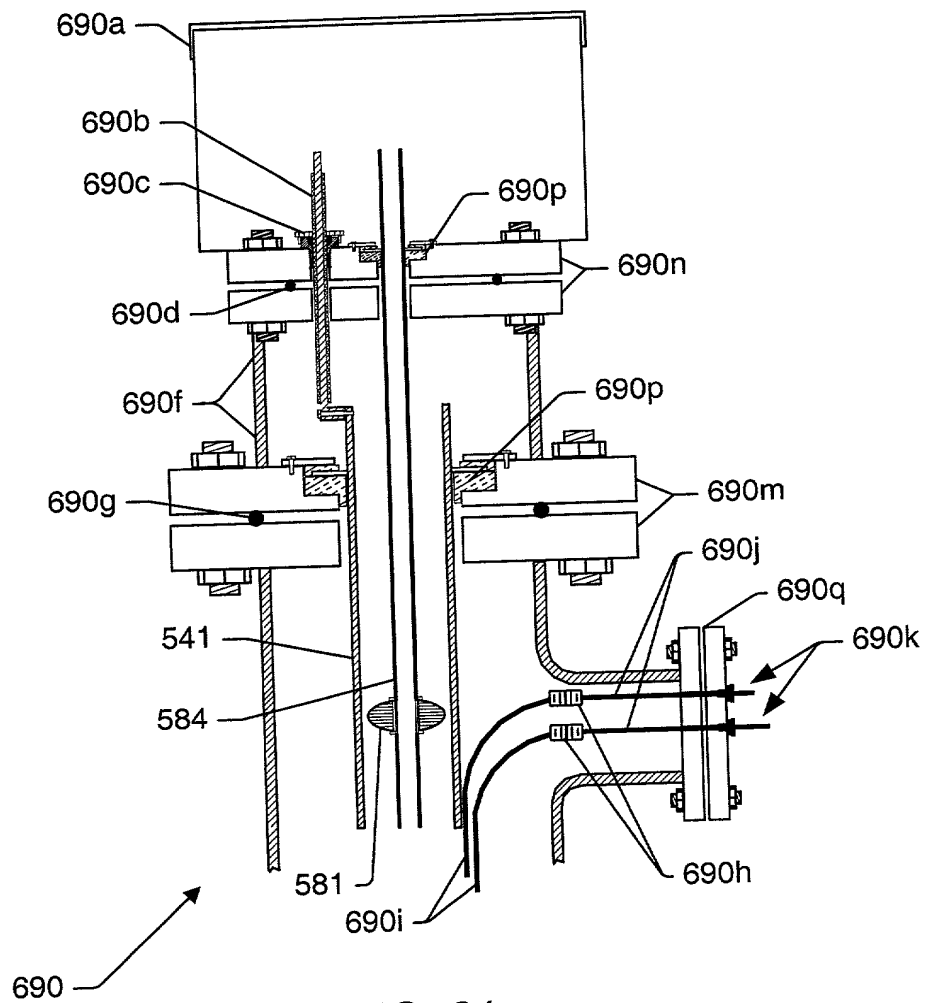


FIG. 21

FIG. 10 is a cross-sectional view of a second embodiment of the device. It shows two vertical members 580 and 582. Between them are two horizontal members 581a and 581d. These are connected by two horizontal bars 581b and 581c, which are part of a larger assembly 581e. The assembly 581e is shown with a cross-hatched pattern. An arrow points to the assembly 581.

FIG. 22

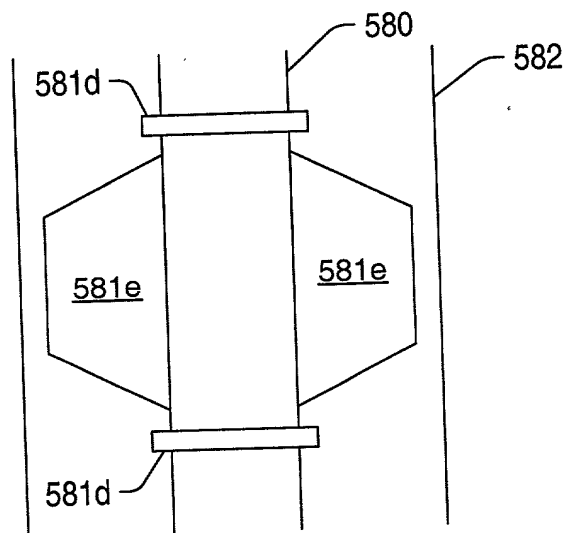


FIG. 23a

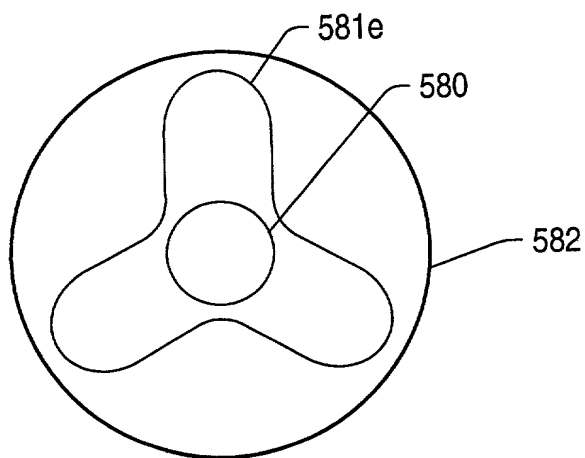


FIG. 23b

09841000 042401

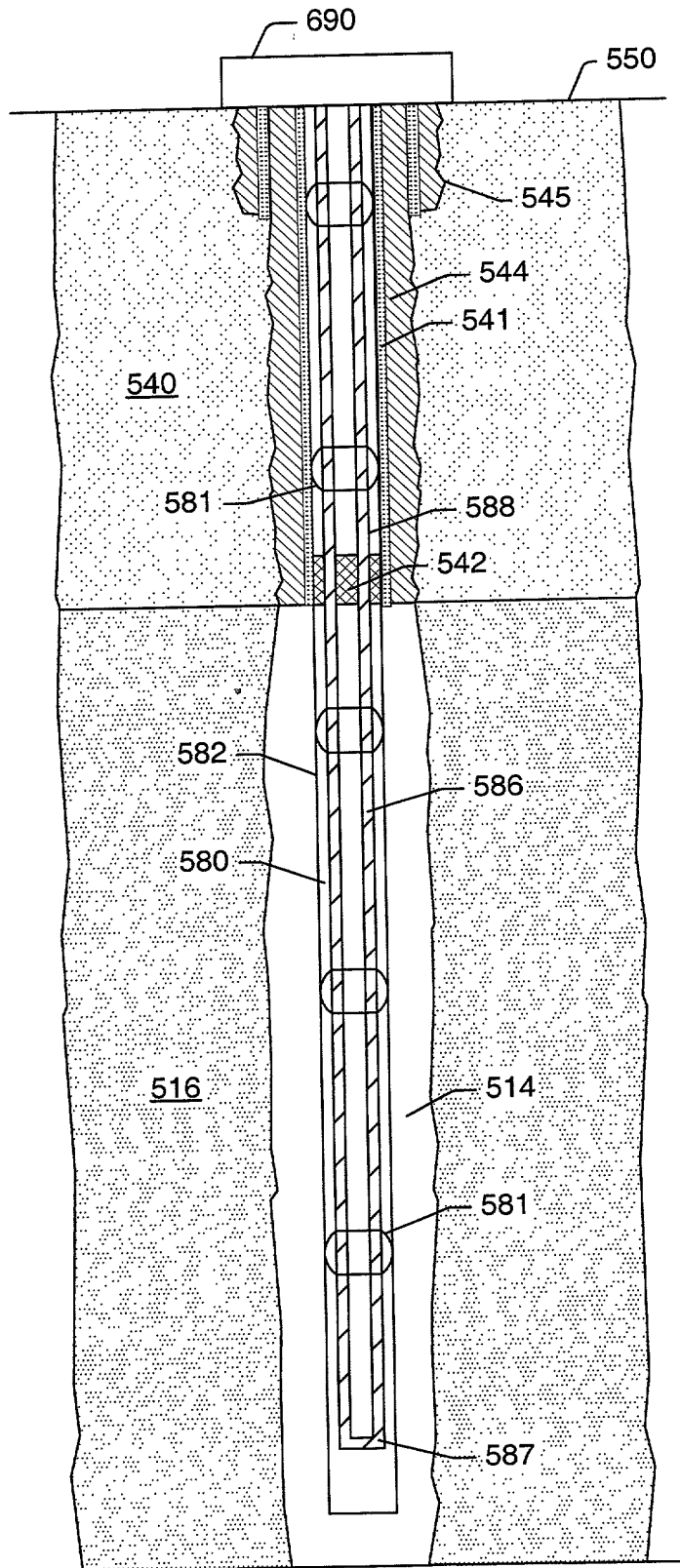


Fig. 24

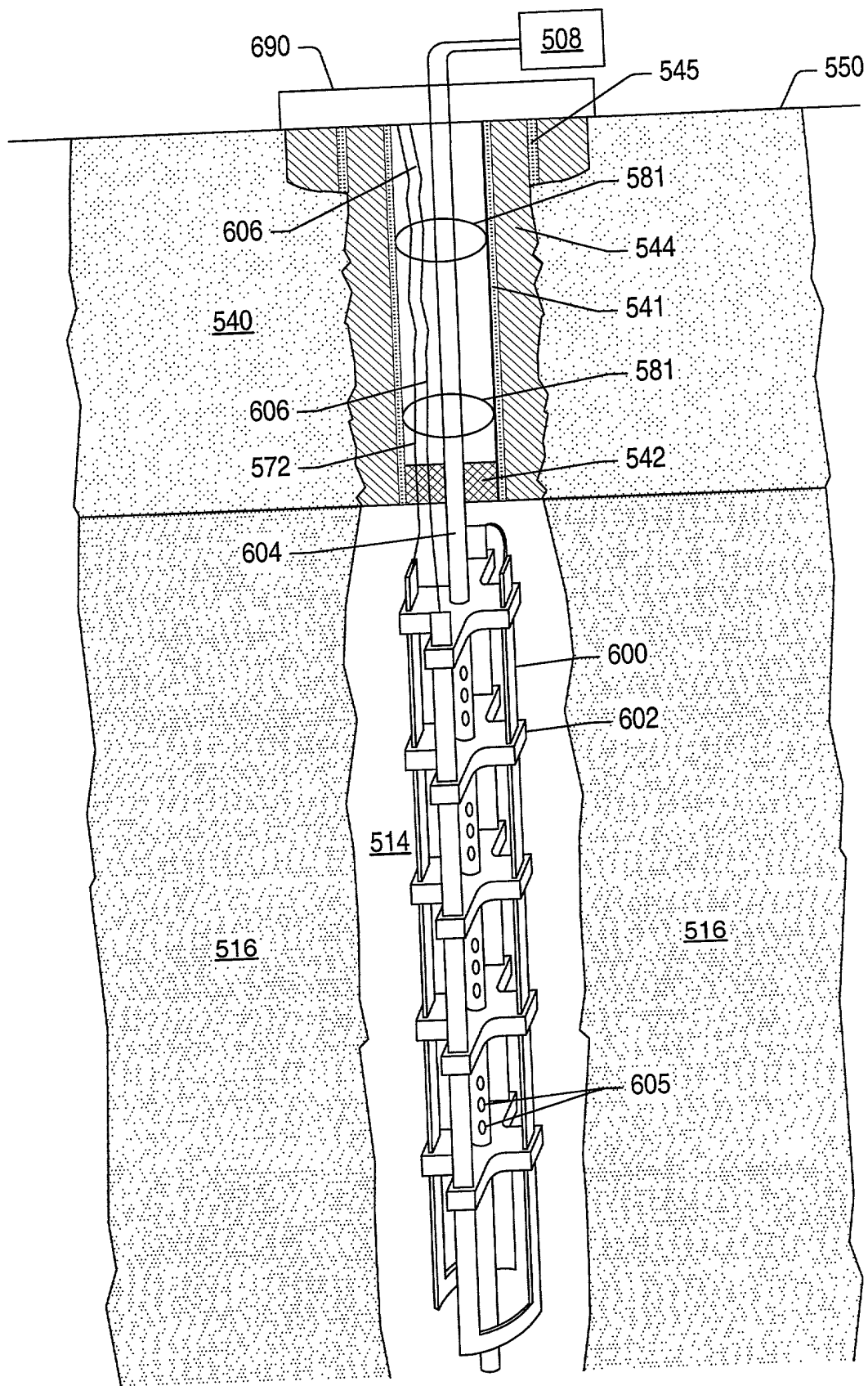


FIG. 25

FIG. 26

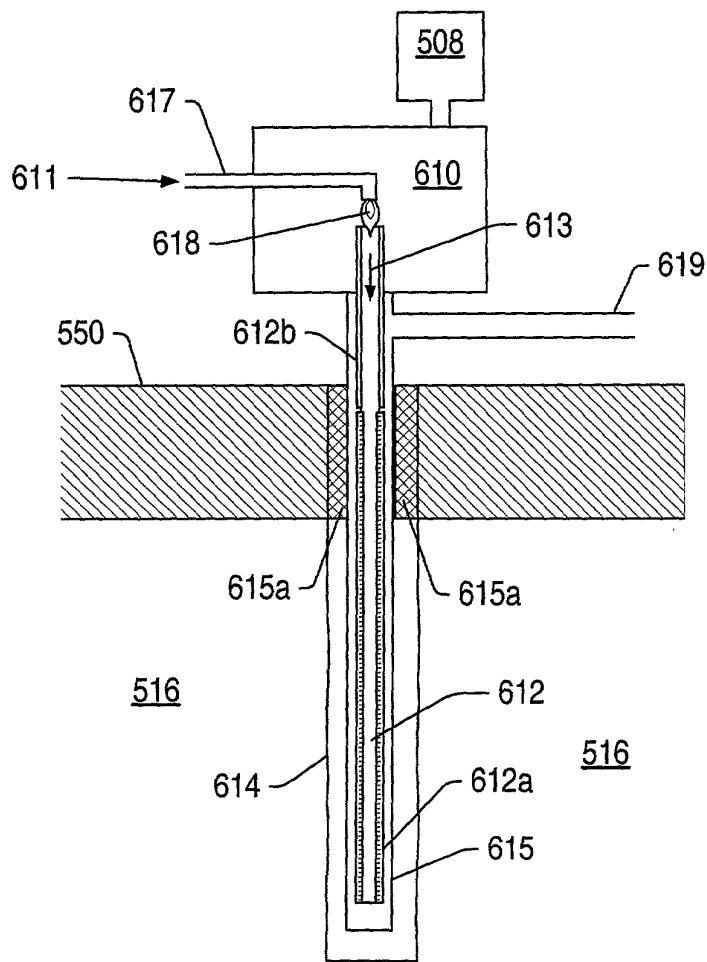


FIG. 26

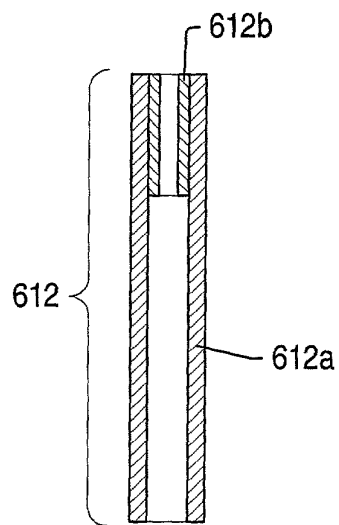


FIG. 27

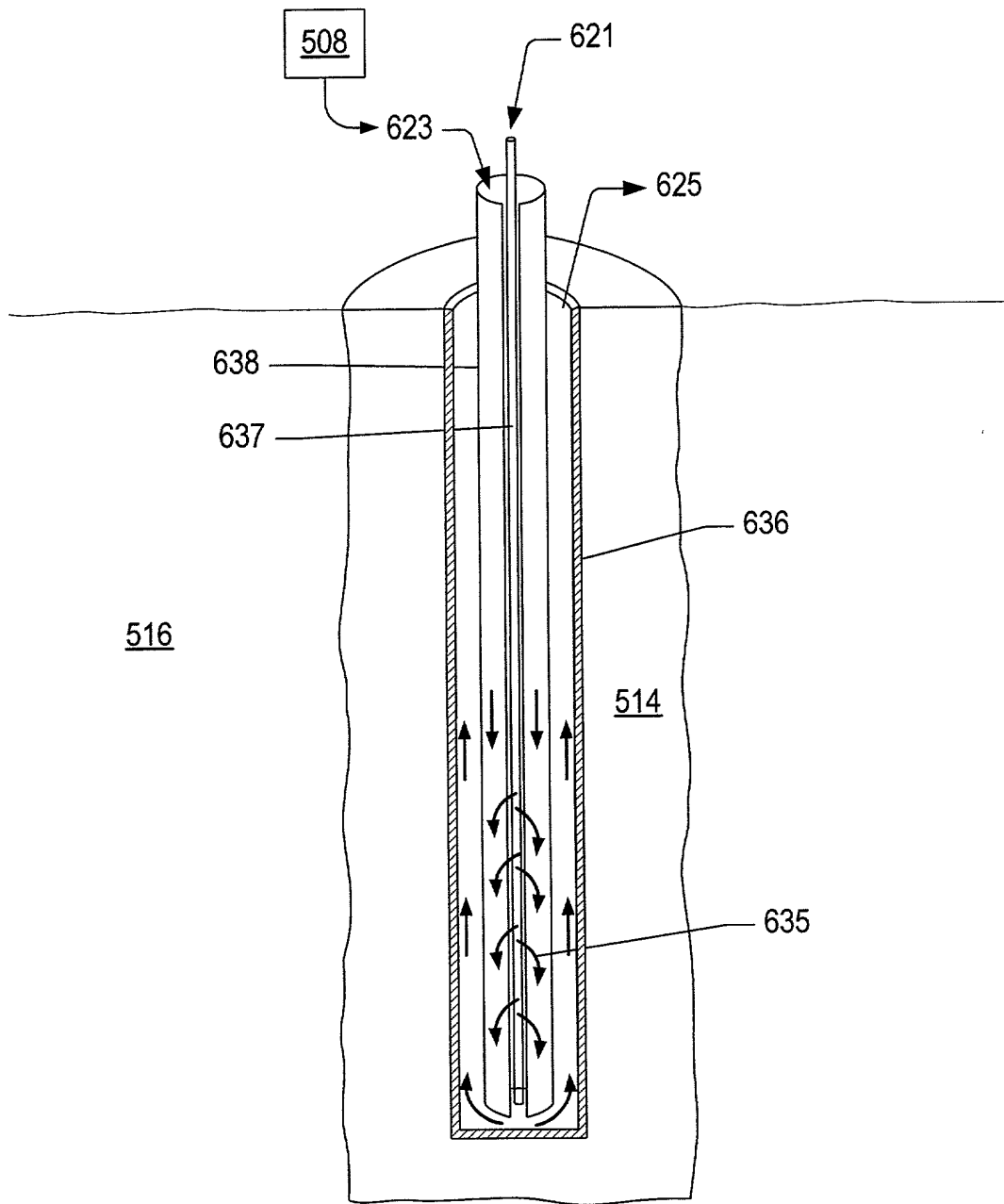


FIG. 28

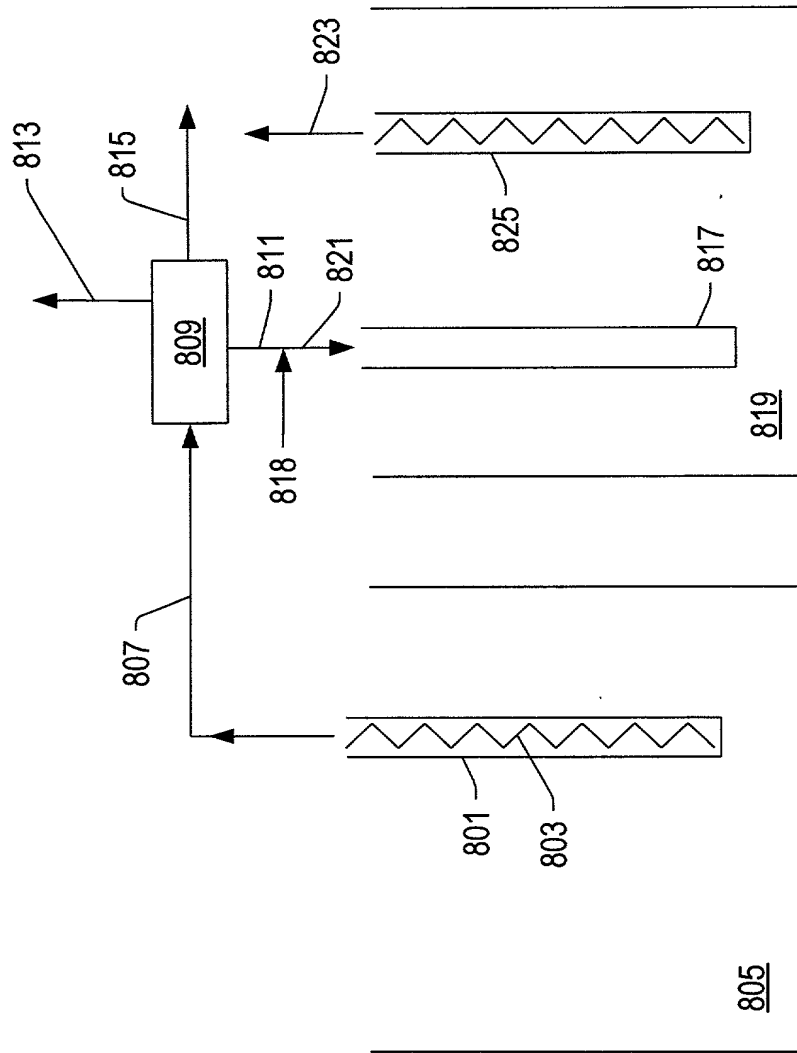


FIG. 29

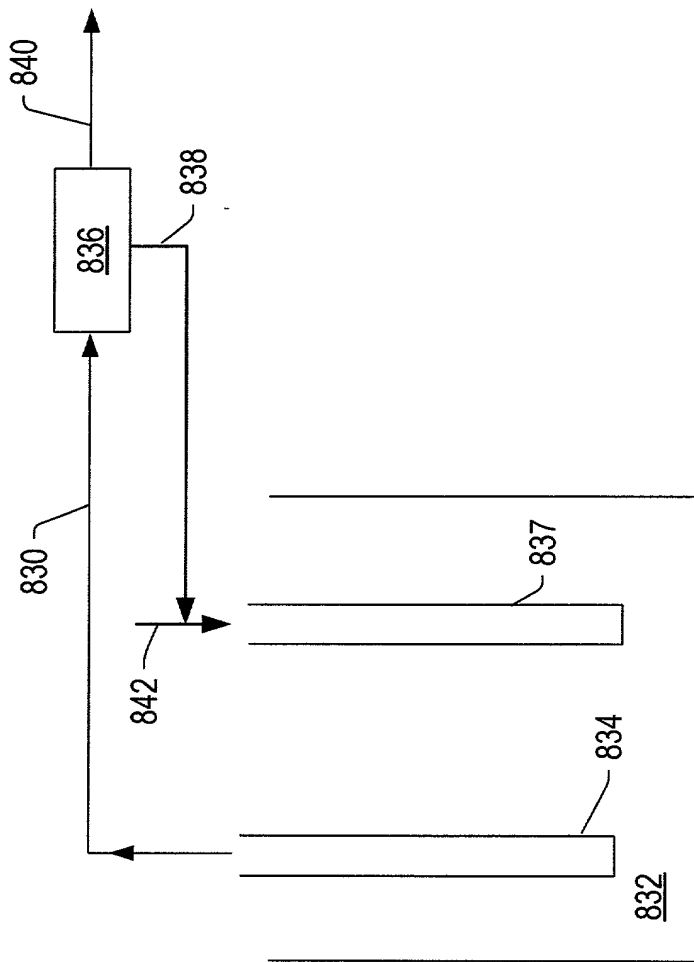


FIG. 30

FIG. 31

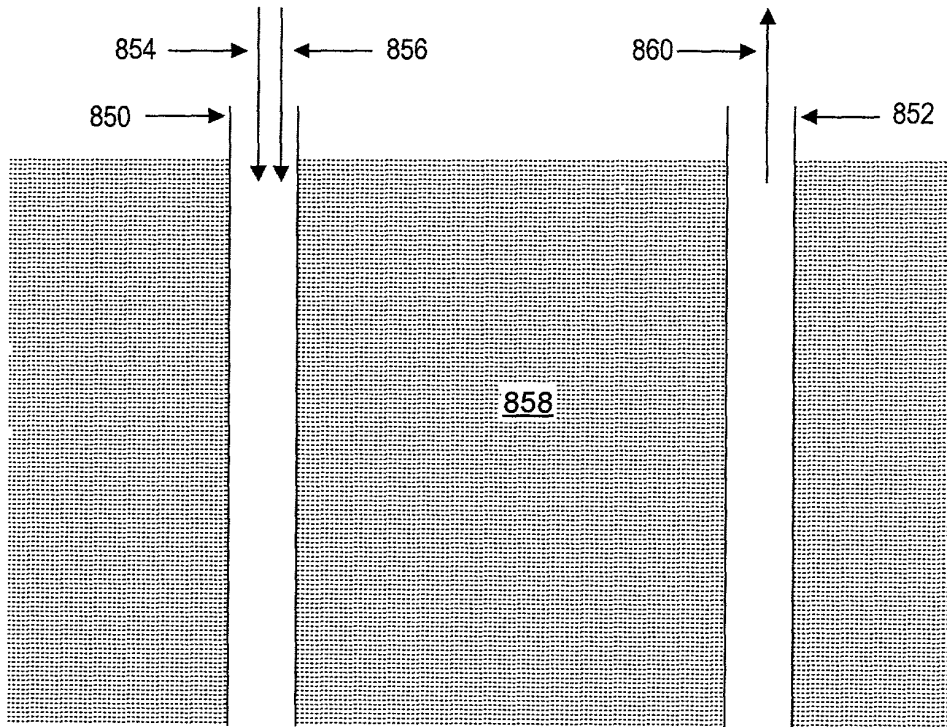


FIG. 31

FOIb2h0" 000T4860

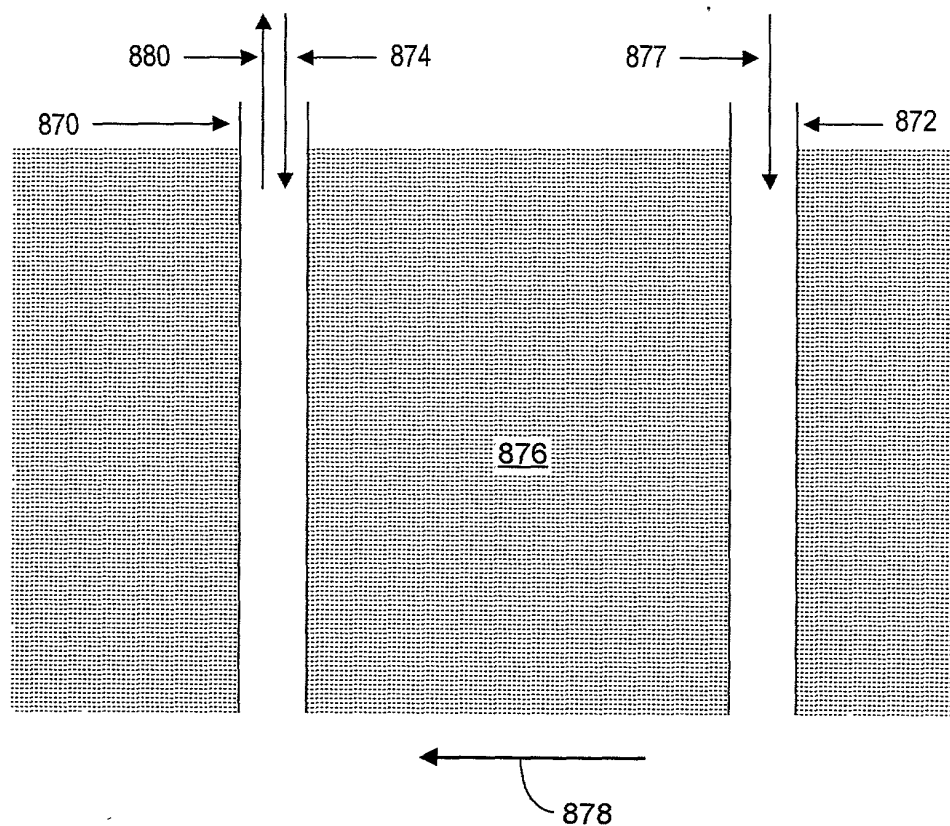


FIG. 32

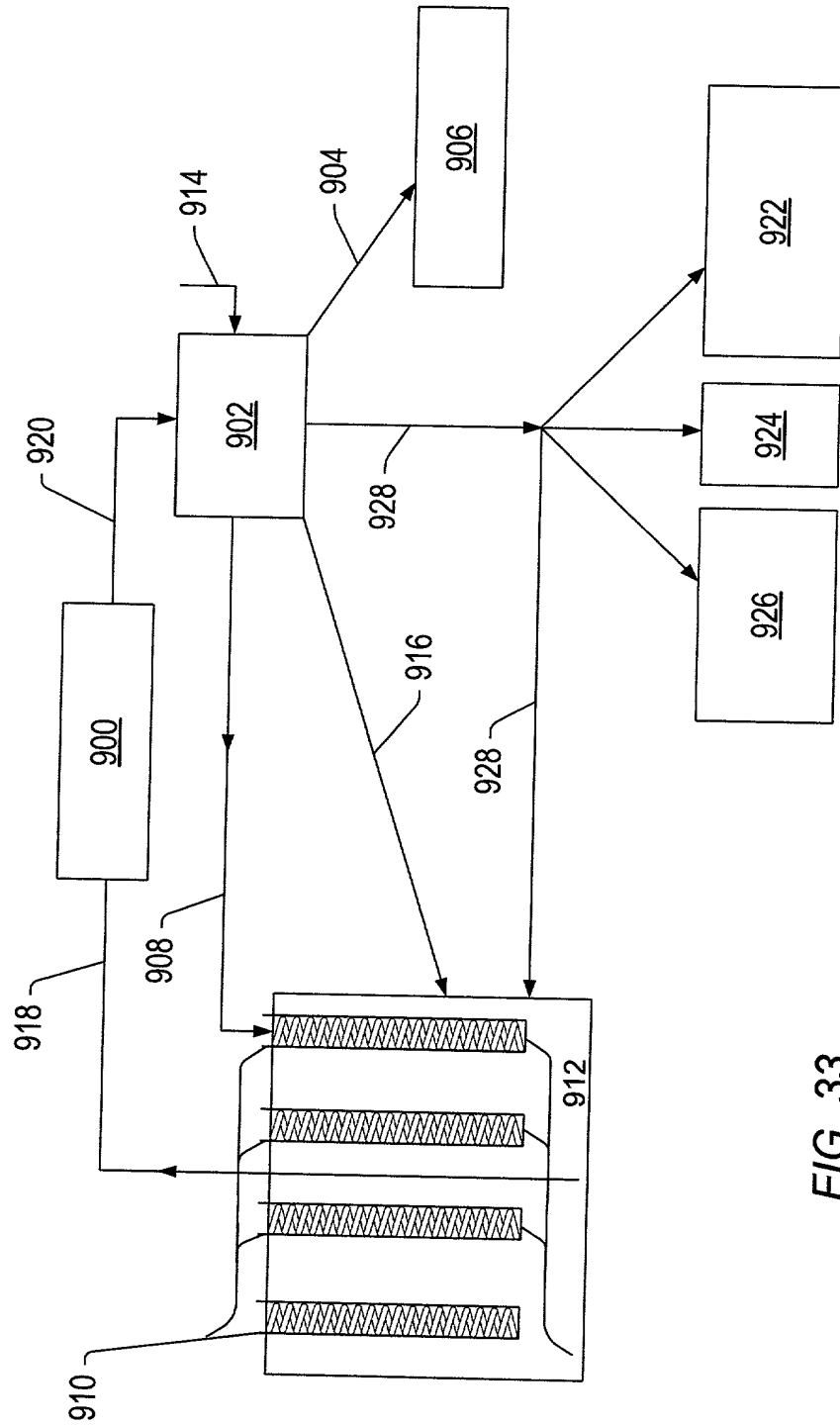


FIG. 33

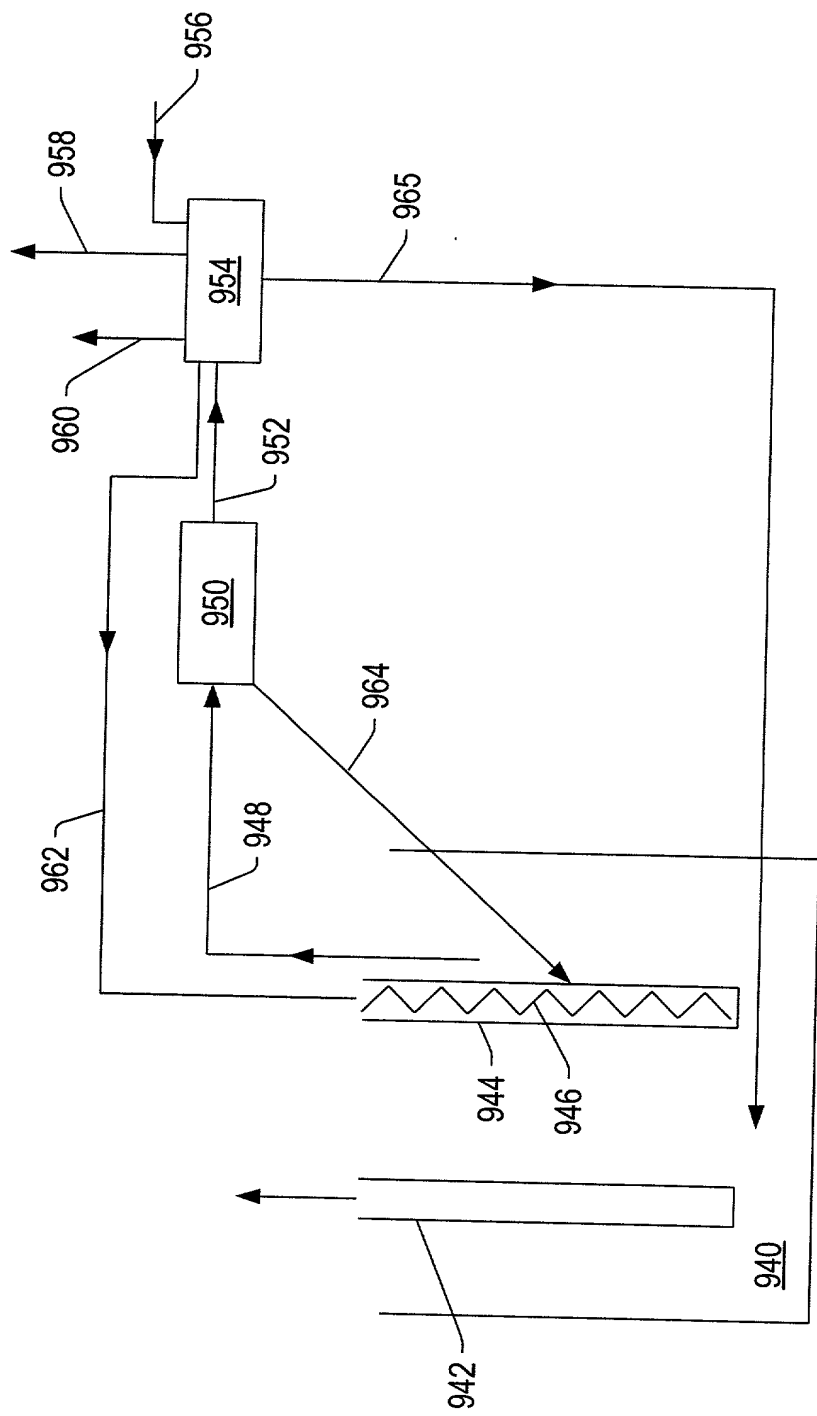


FIG. 34

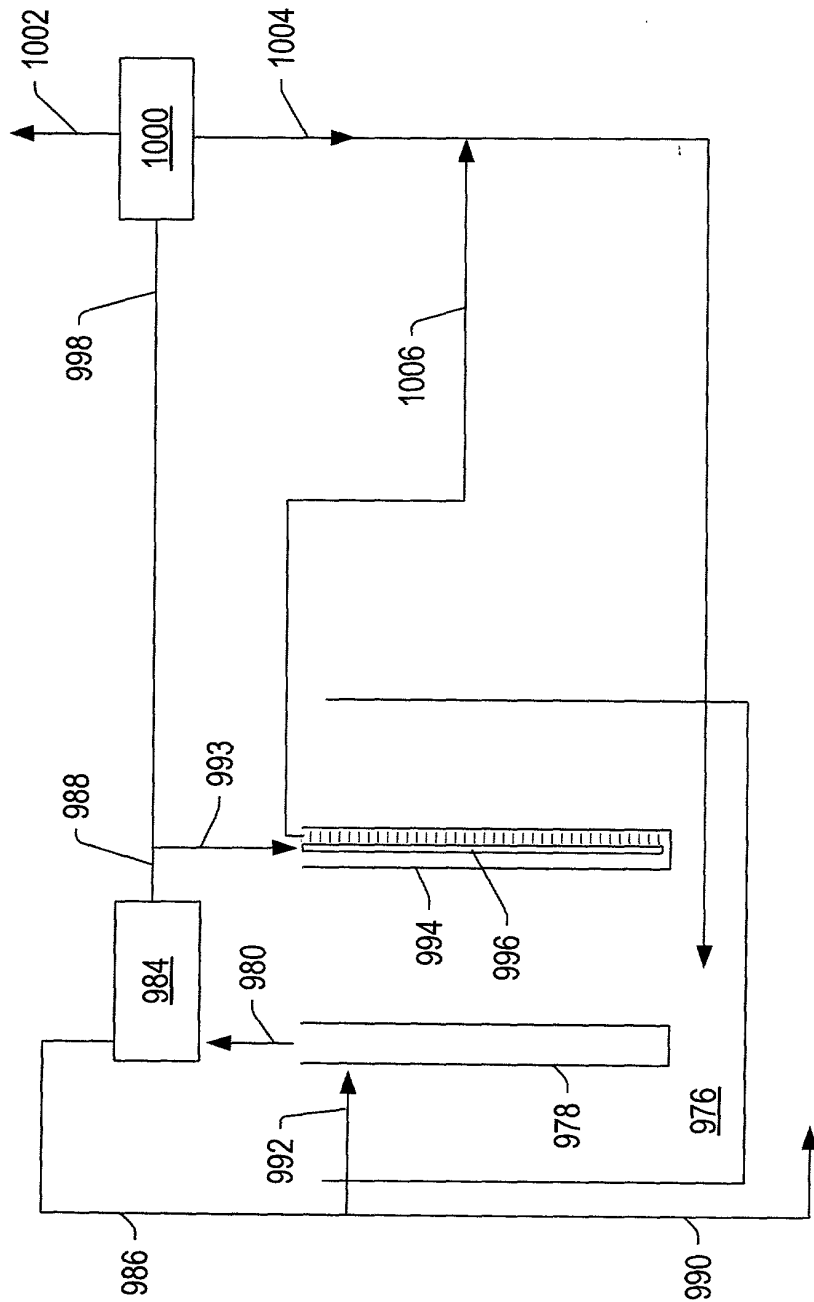


FIG. 35

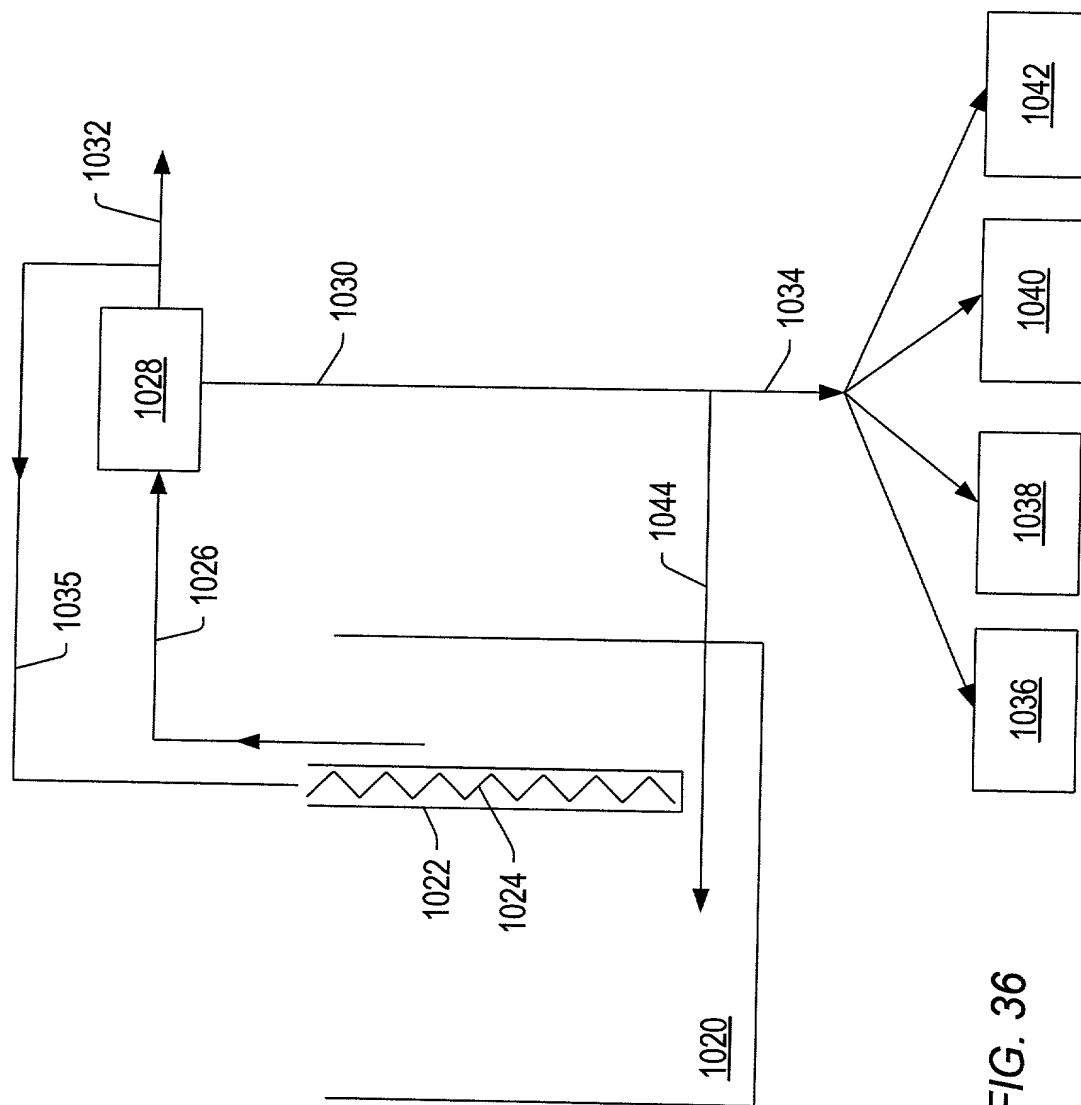


FIG. 36

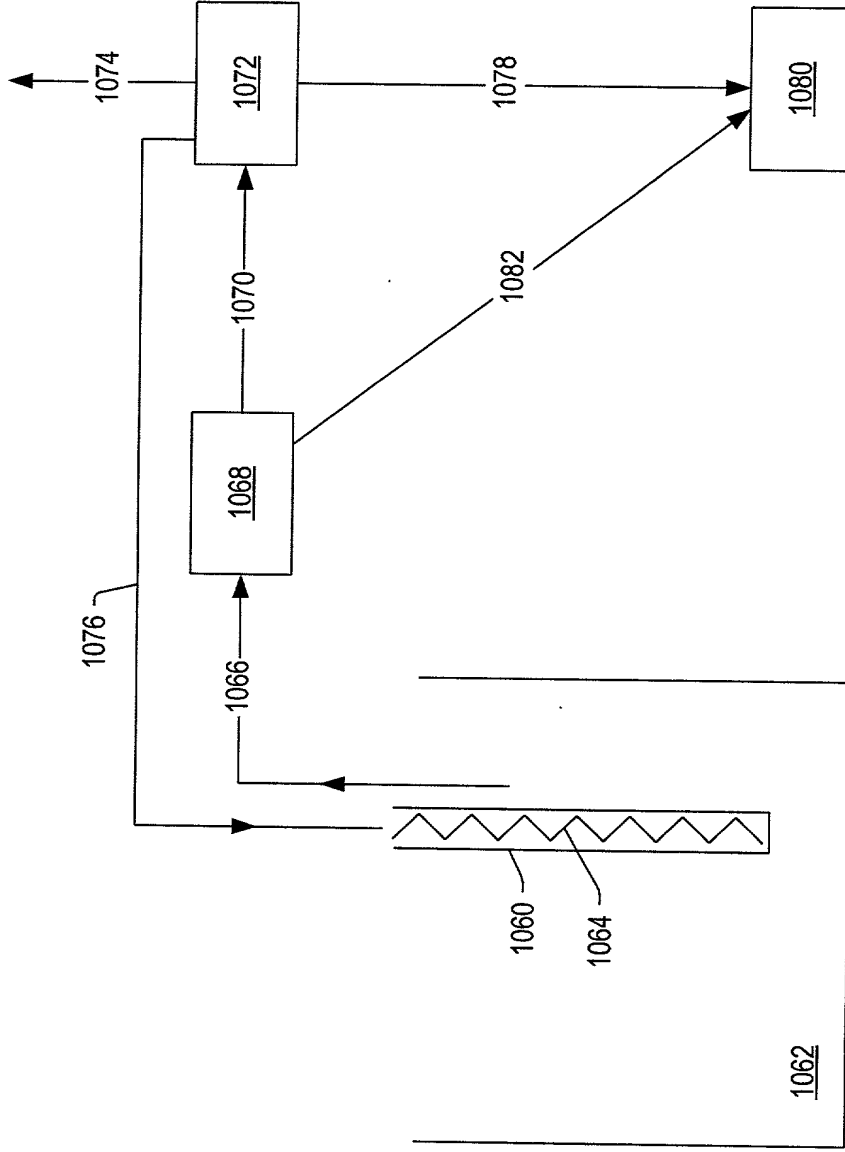


FIG. 37

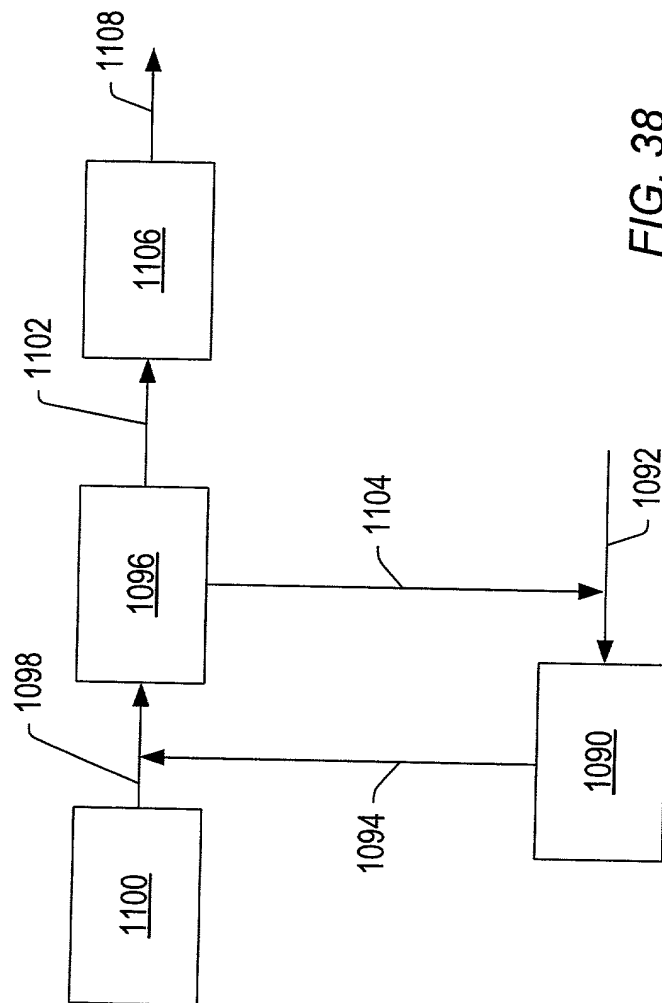


FIG. 38

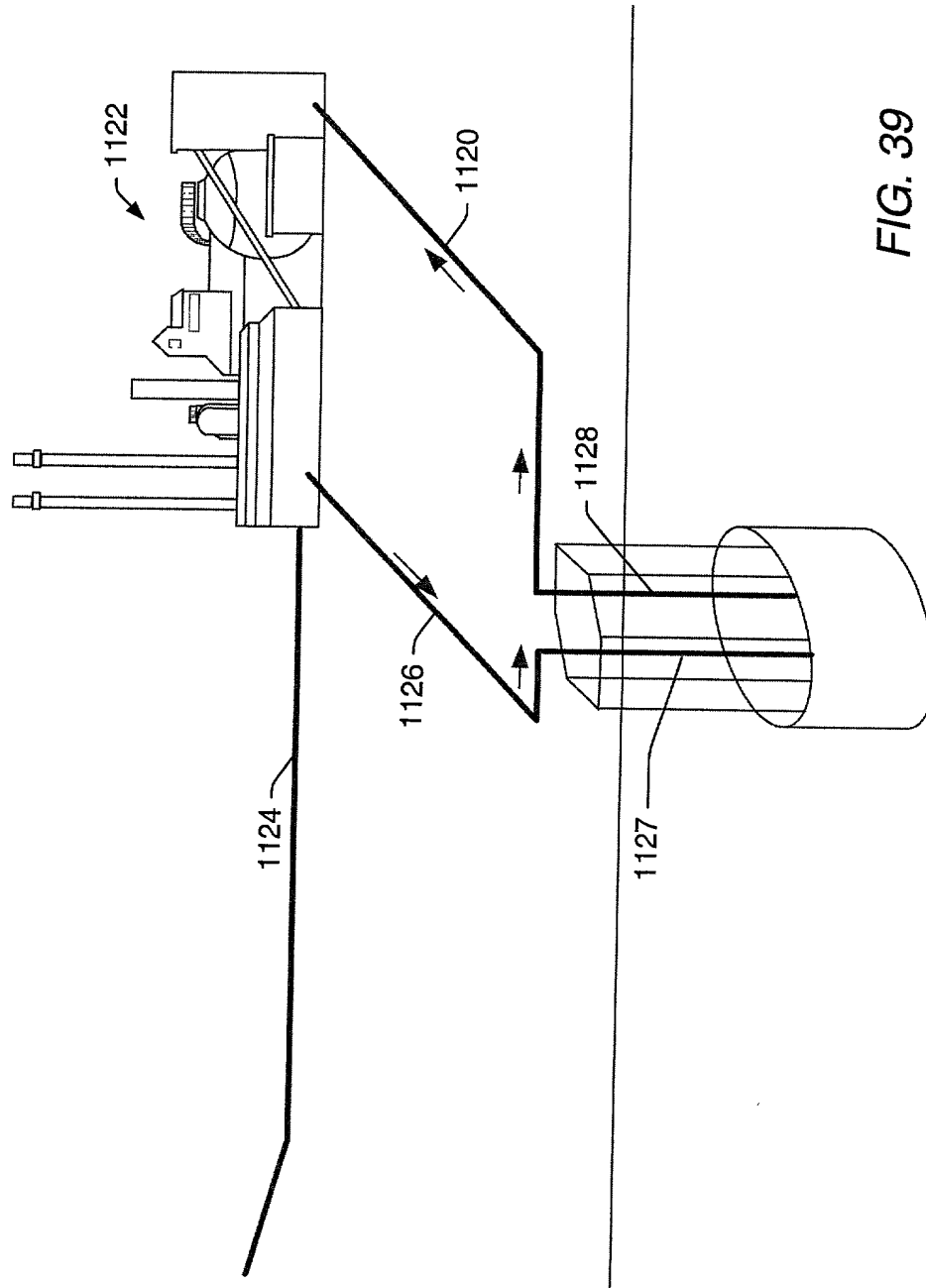


FIG. 39

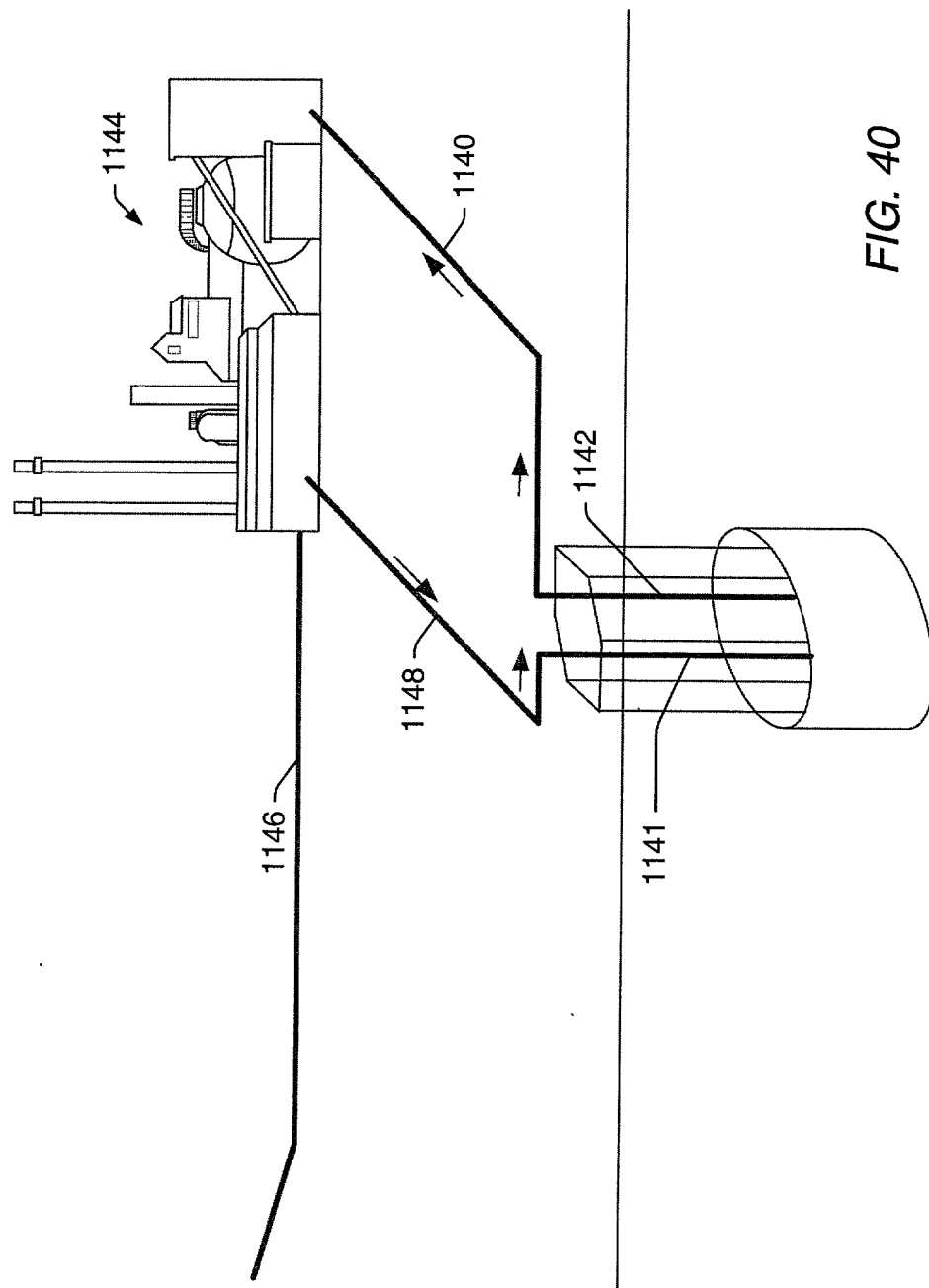


FIG. 40

FIG. 41

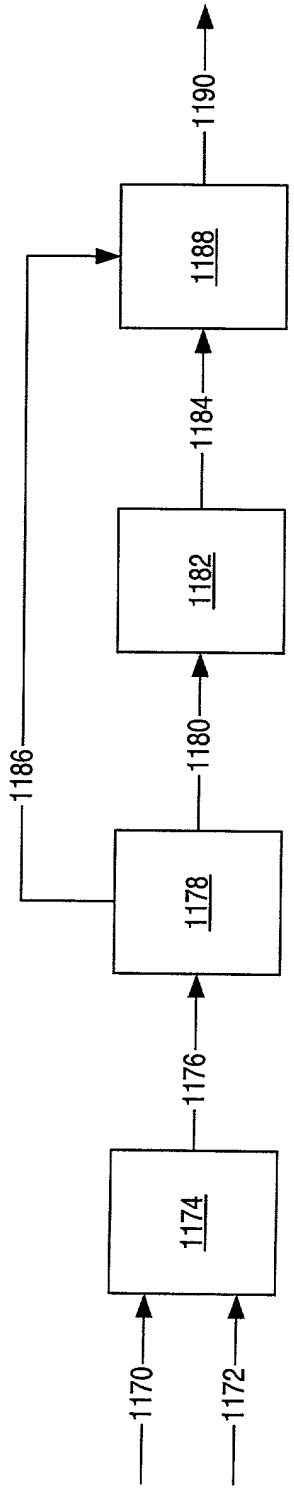


FIG. 41

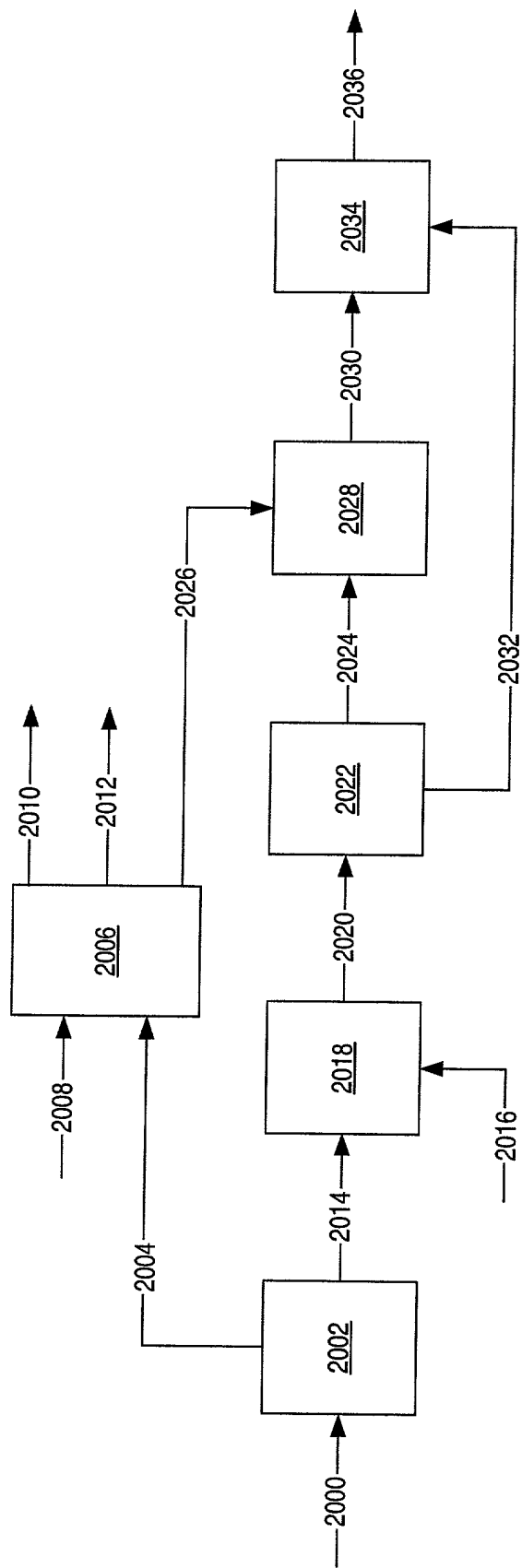


FIG. 42

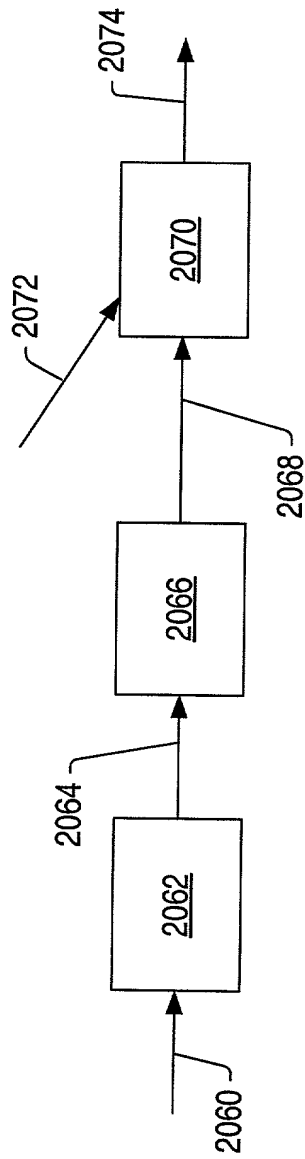


FIG. 43

0941000 042401

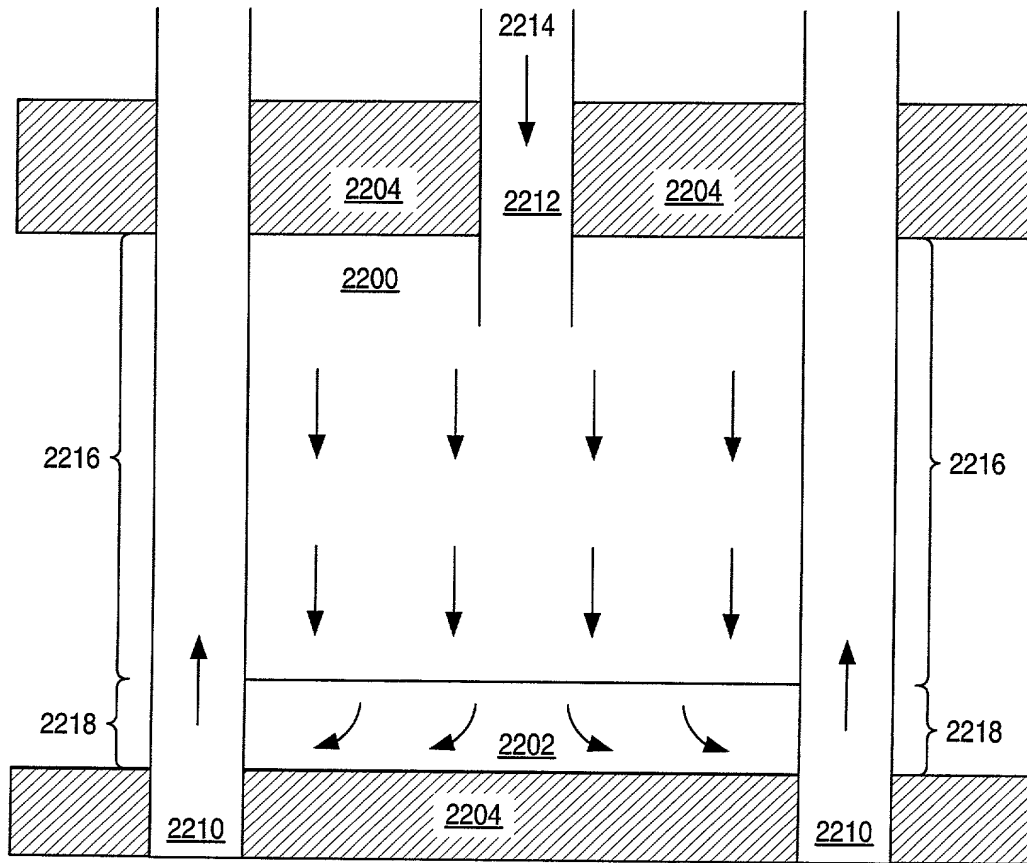


FIG. 44

09441000 042401

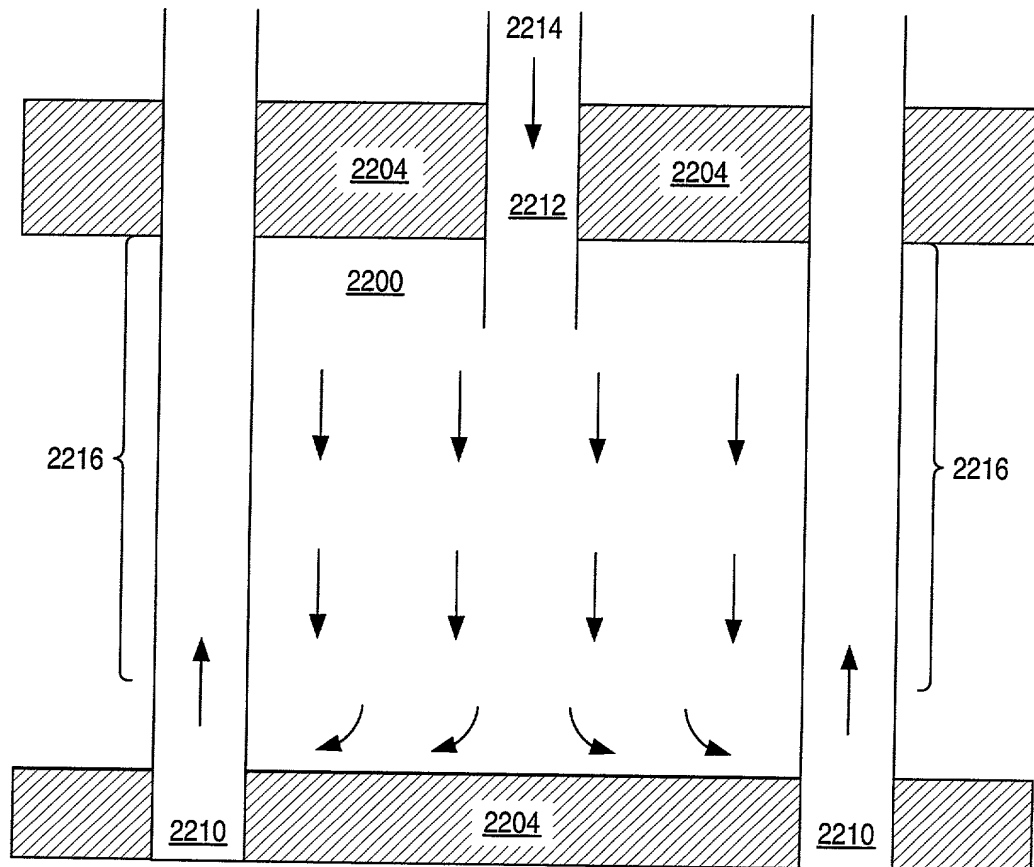


FIG. 45

09440004400

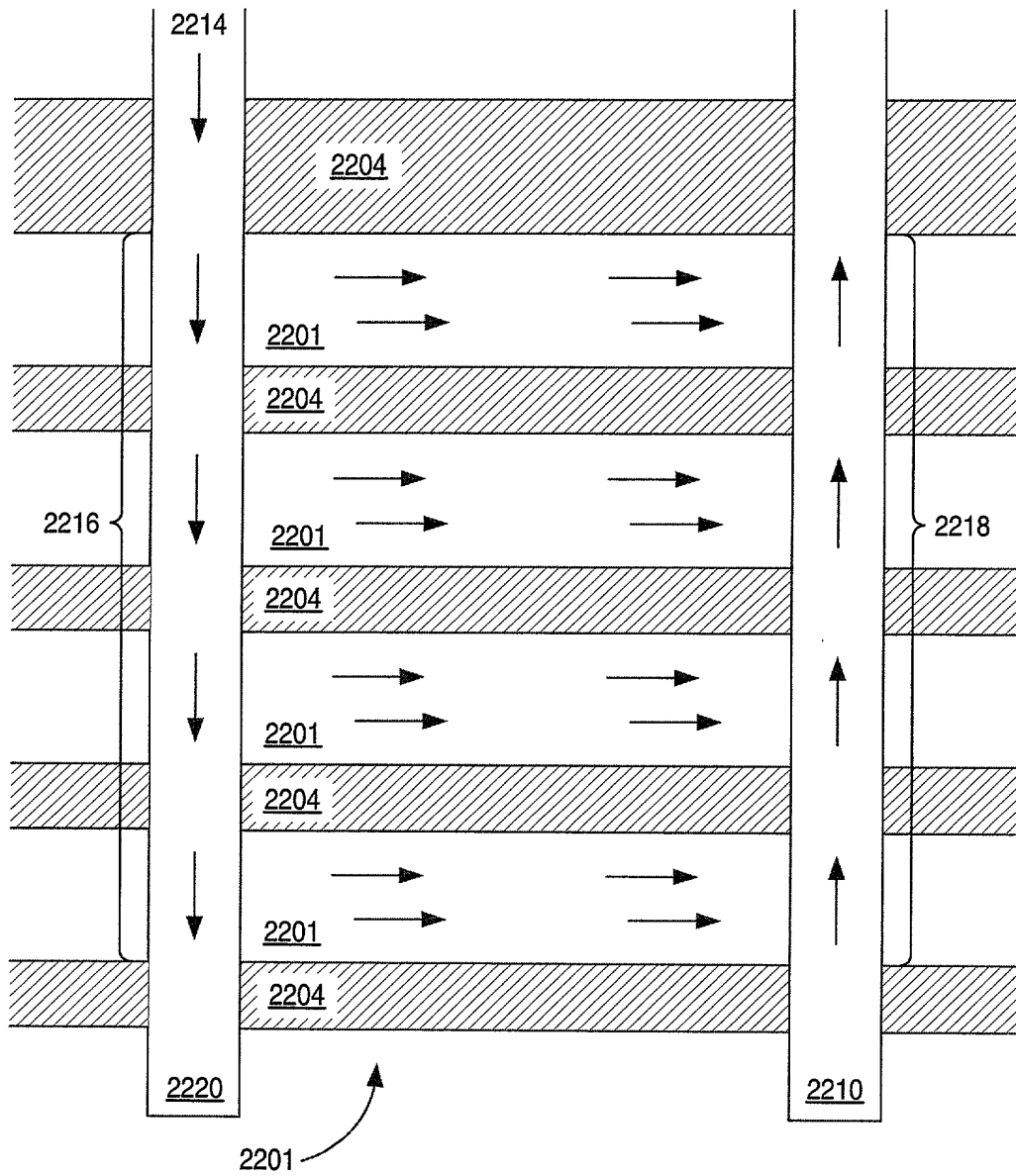


FIG. 46

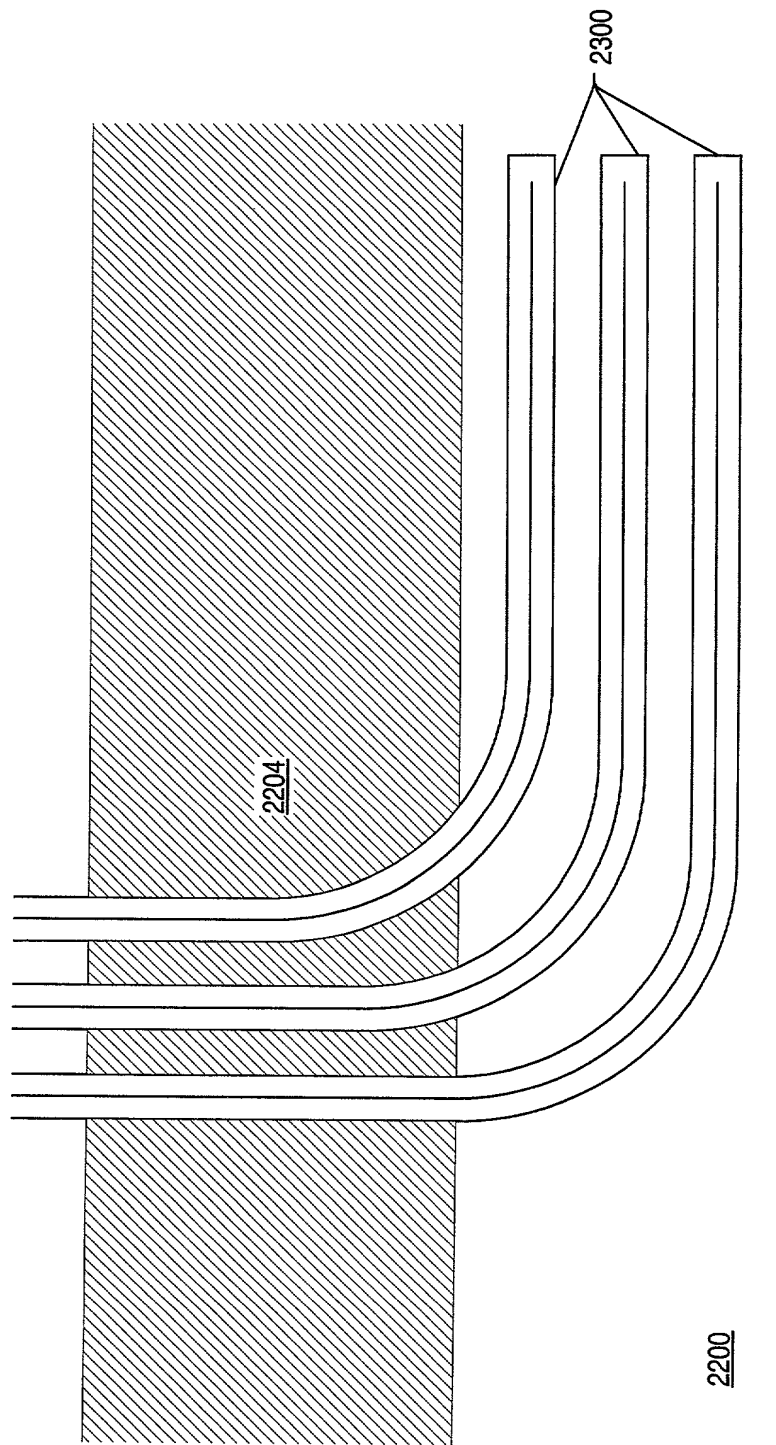


FIG. 47

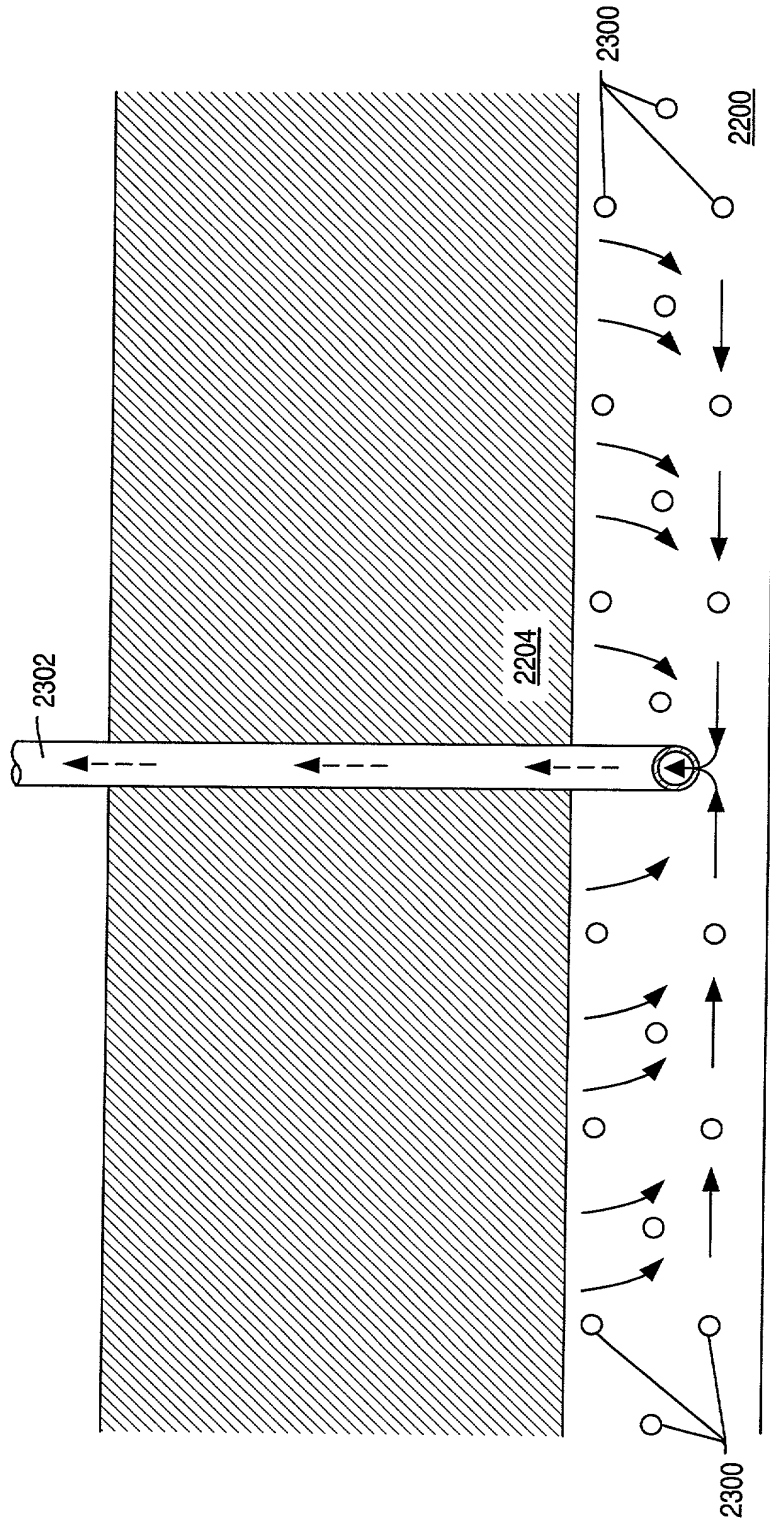


FIG. 48

FIG. 49

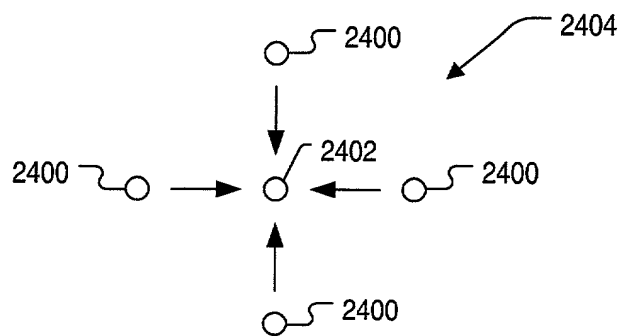


FIG. 49

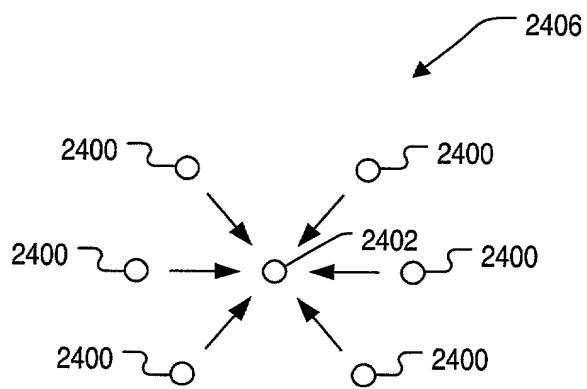


FIG. 50

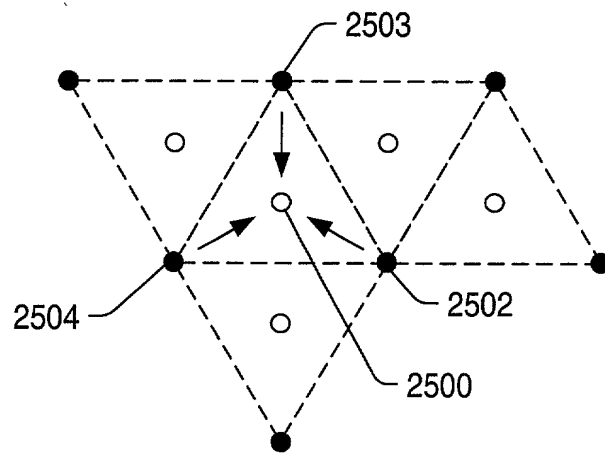


FIG. 51

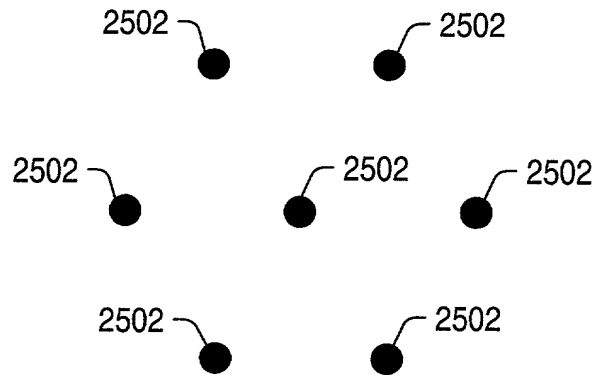


FIG. 52

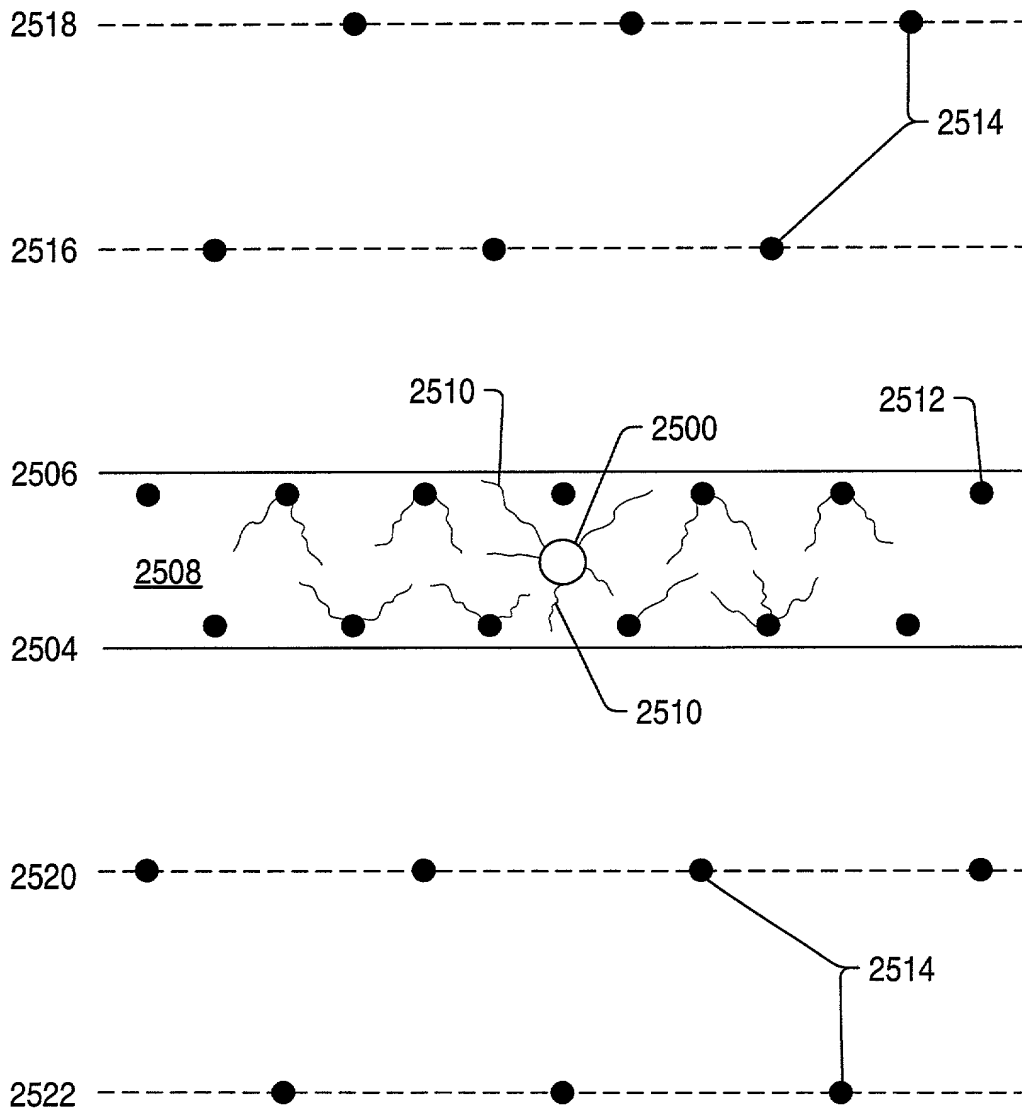


FIG. 53

104240" 000T4860

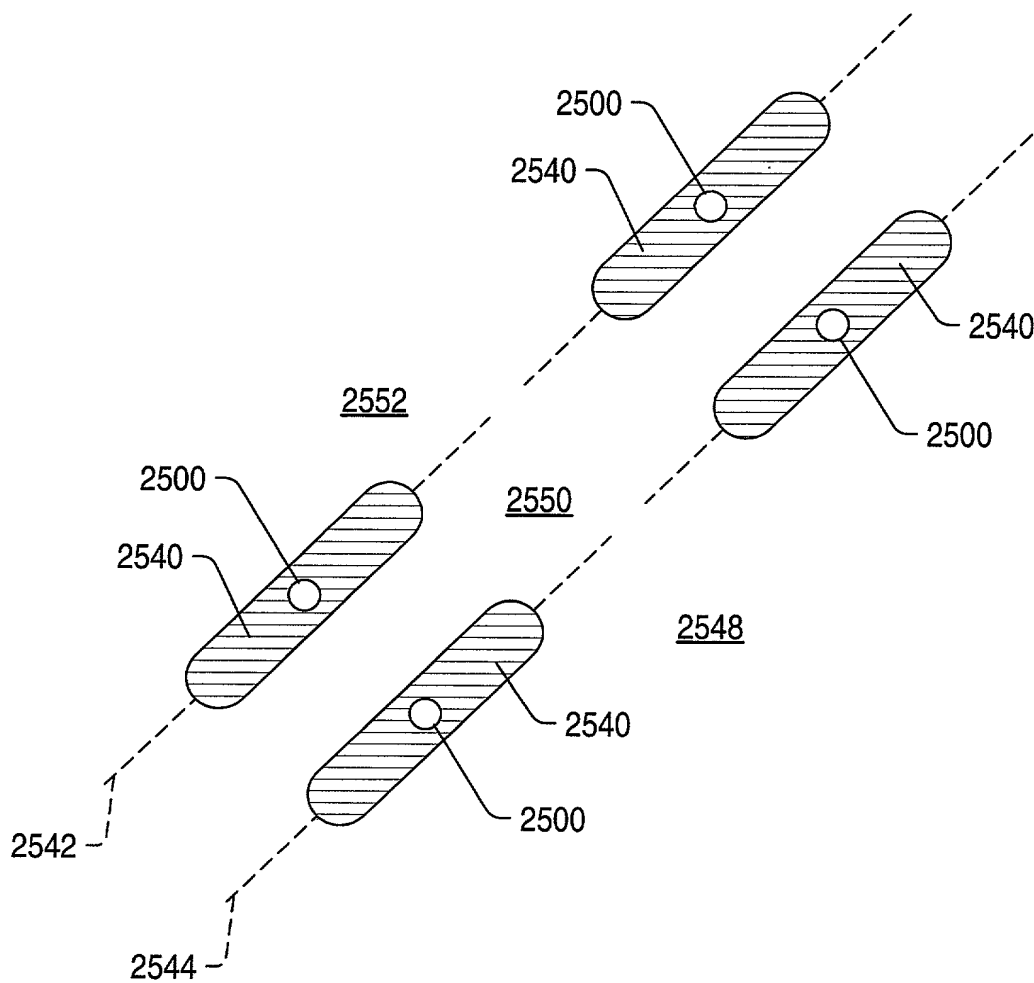


FIG. 54

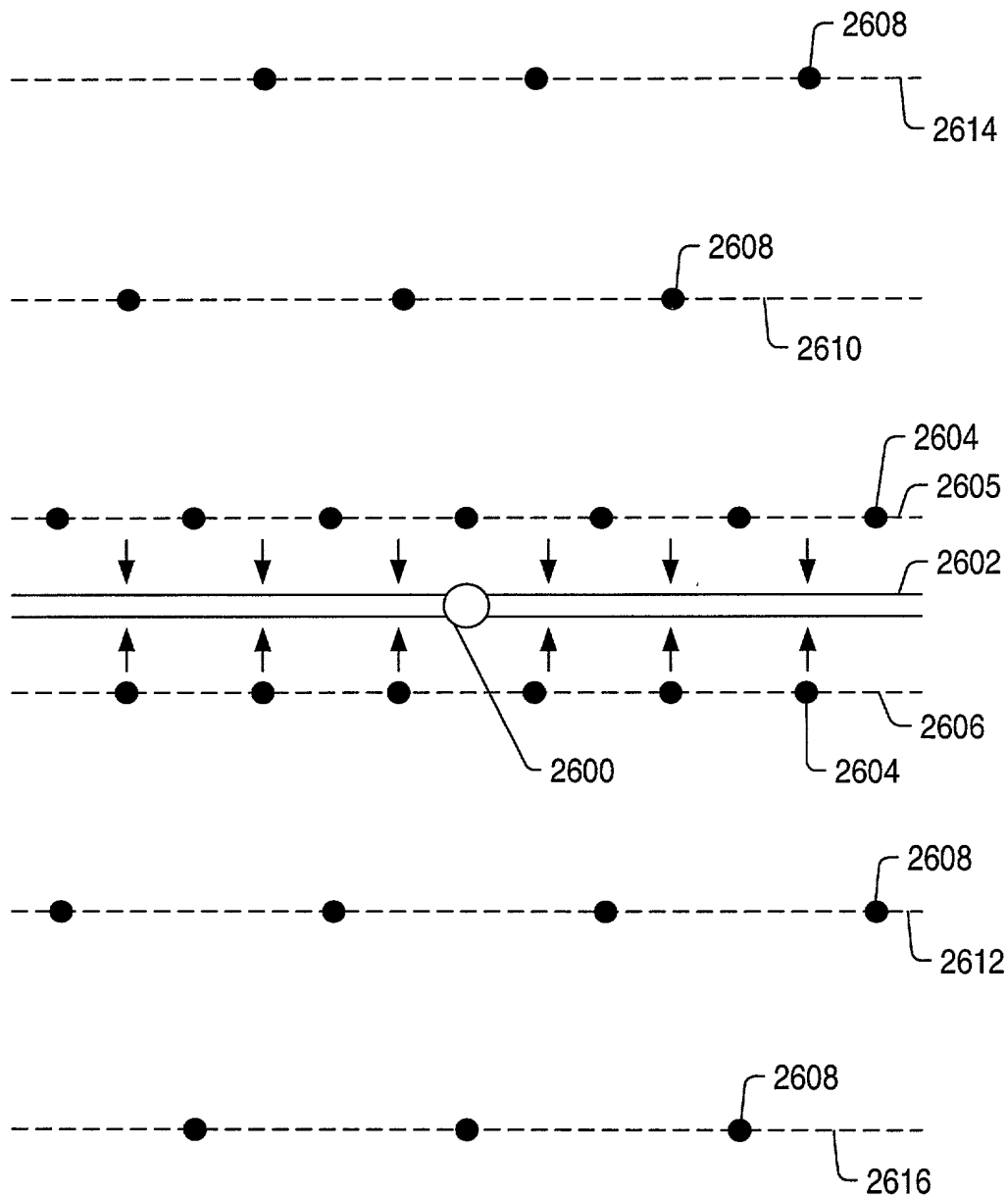


FIG. 55

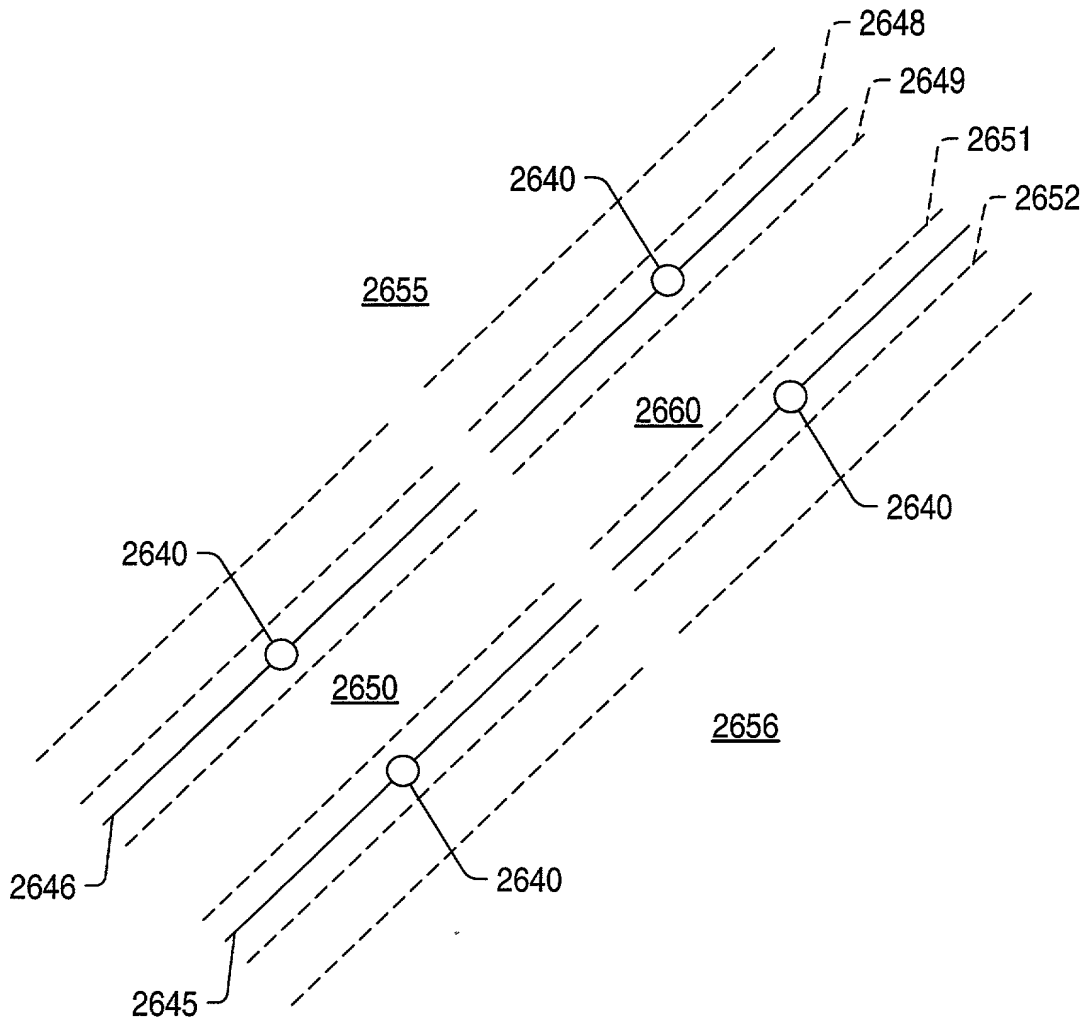


FIG. 56

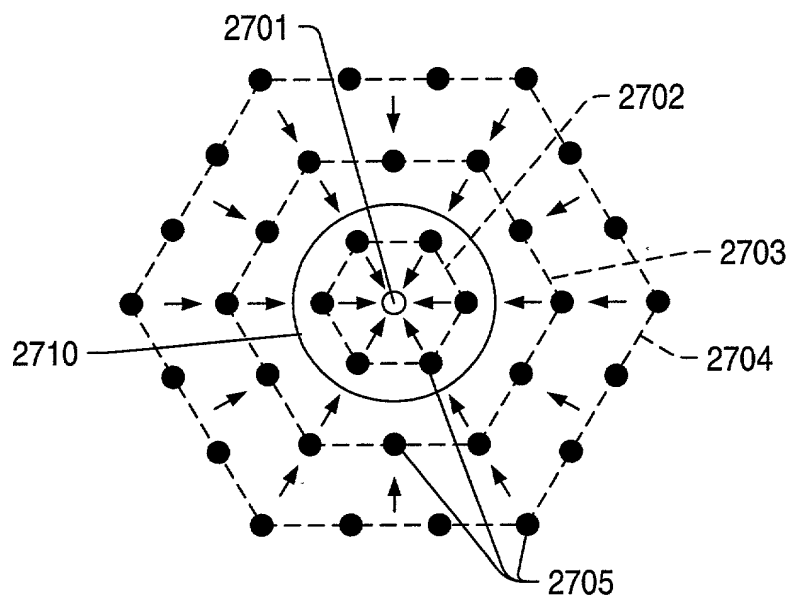


FIG. 57

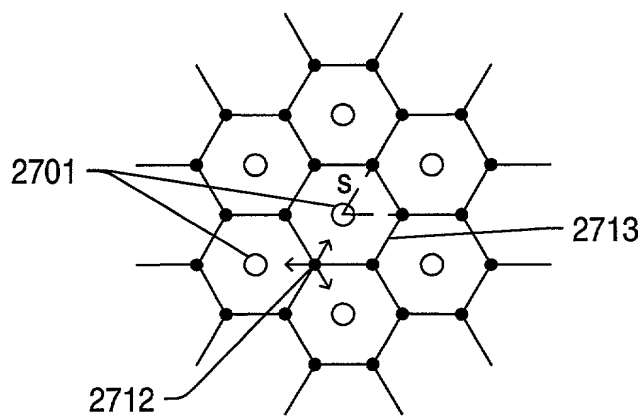


FIG. 58

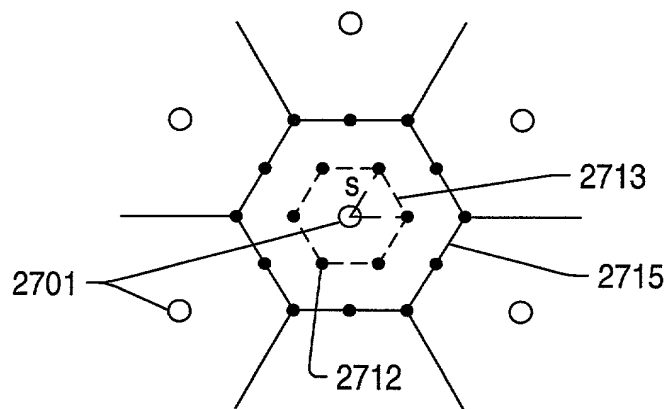


FIG. 59

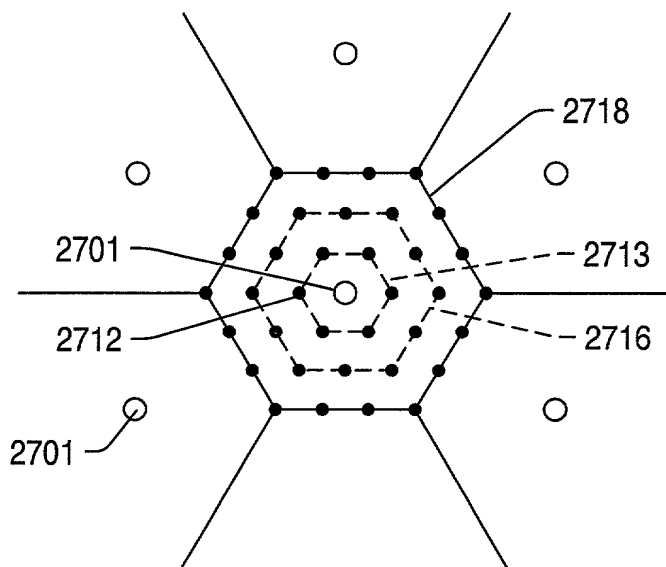


FIG. 60

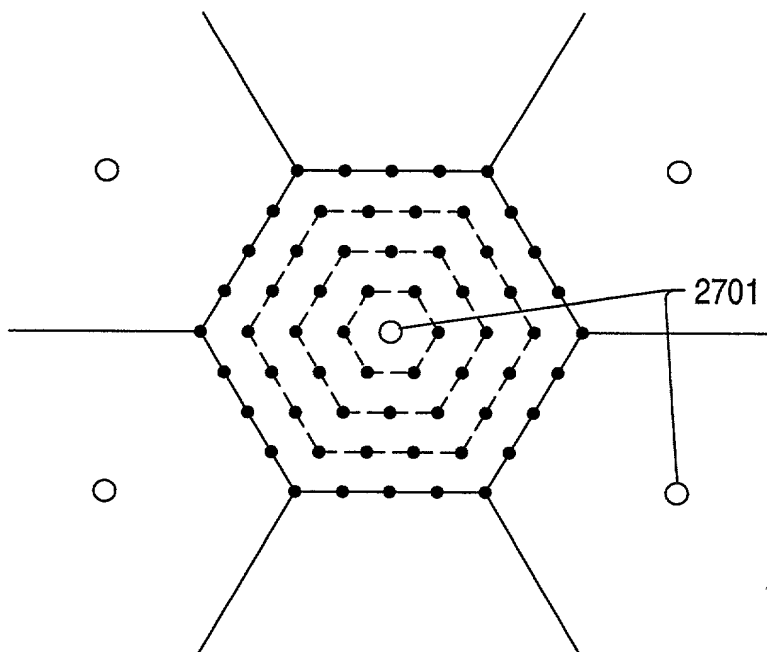


FIG. 61

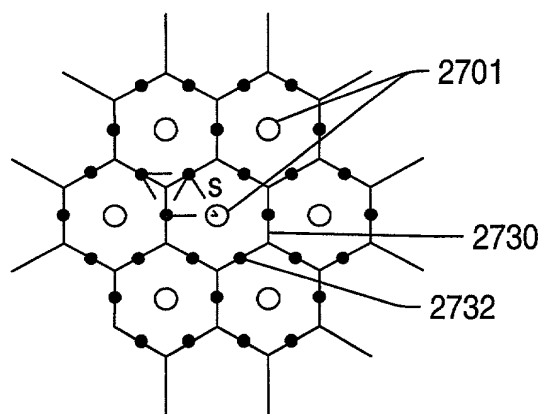


FIG. 62

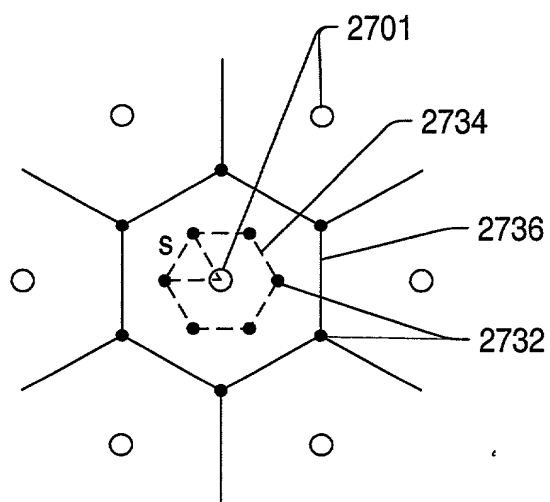


FIG. 63

09241000 042401

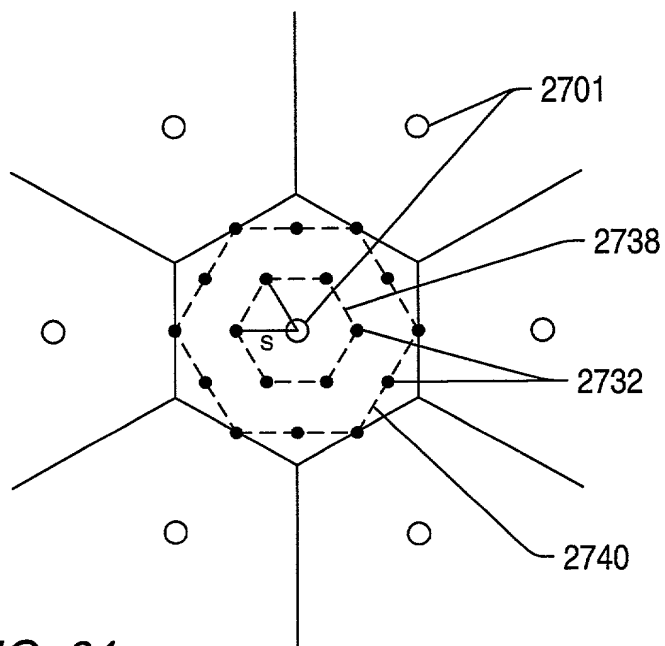


FIG. 64

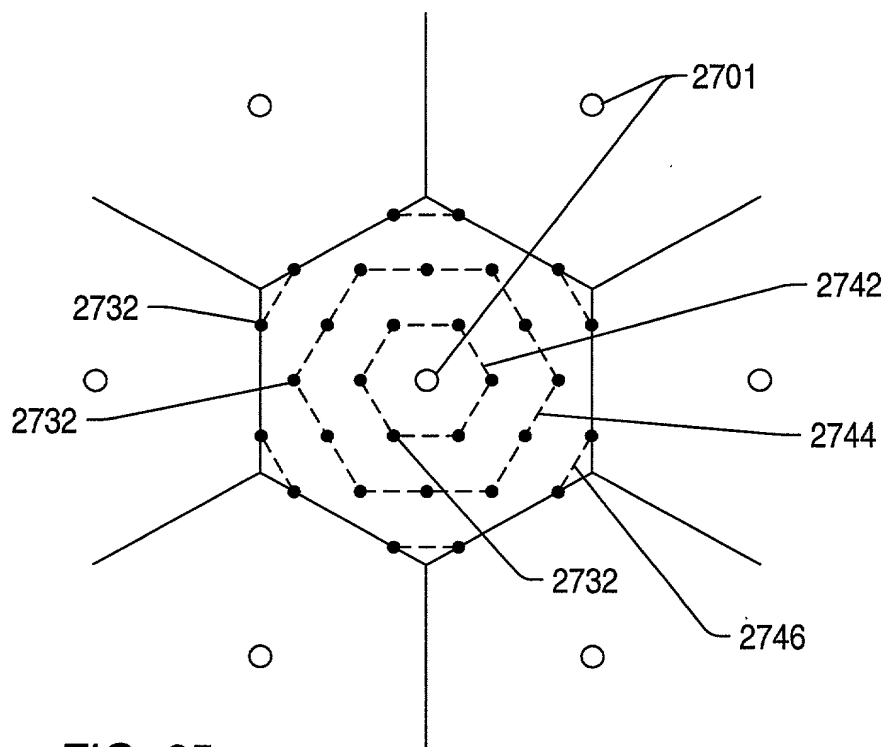


FIG. 65

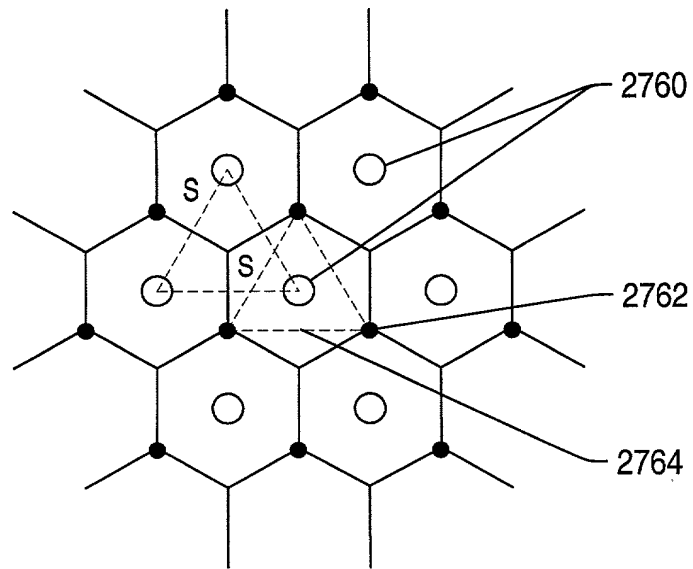


FIG. 66

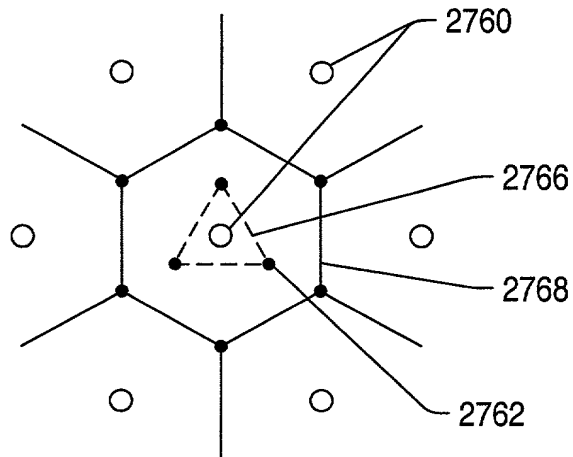


FIG. 67

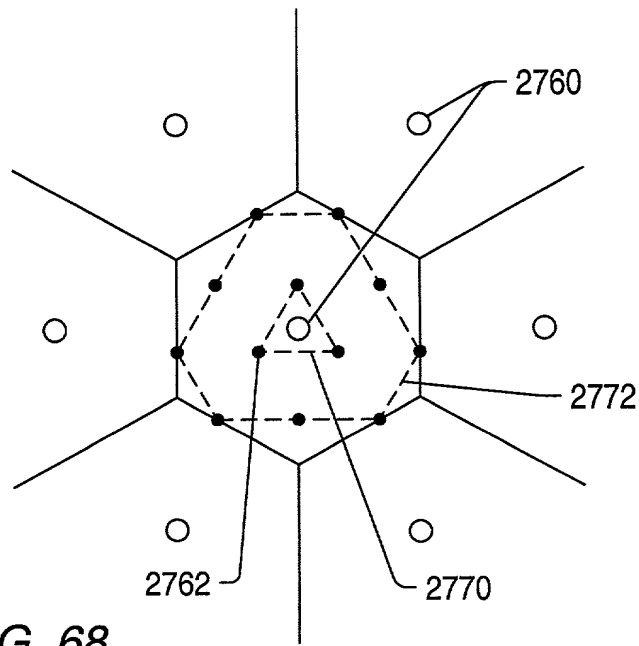


FIG. 68

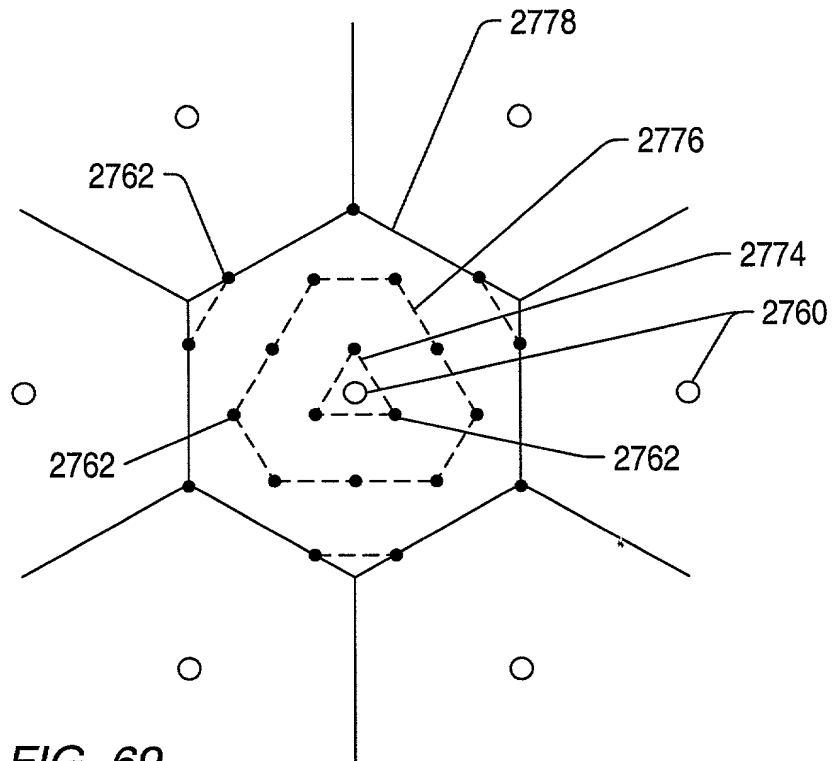


FIG. 69

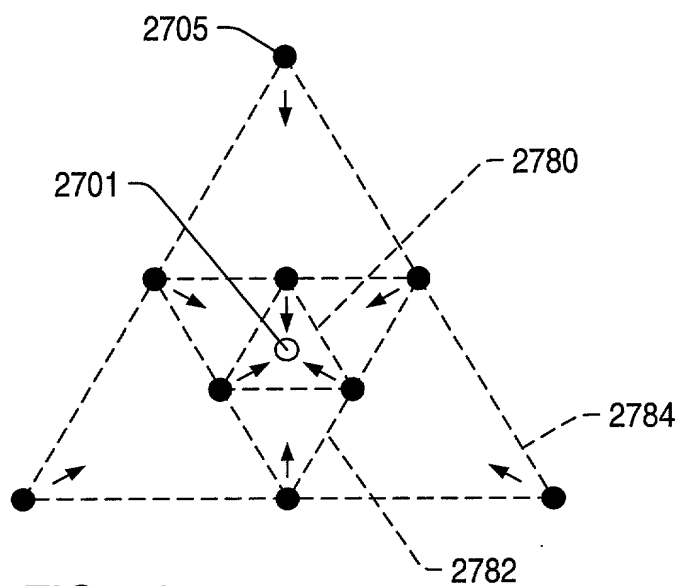


FIG. 70

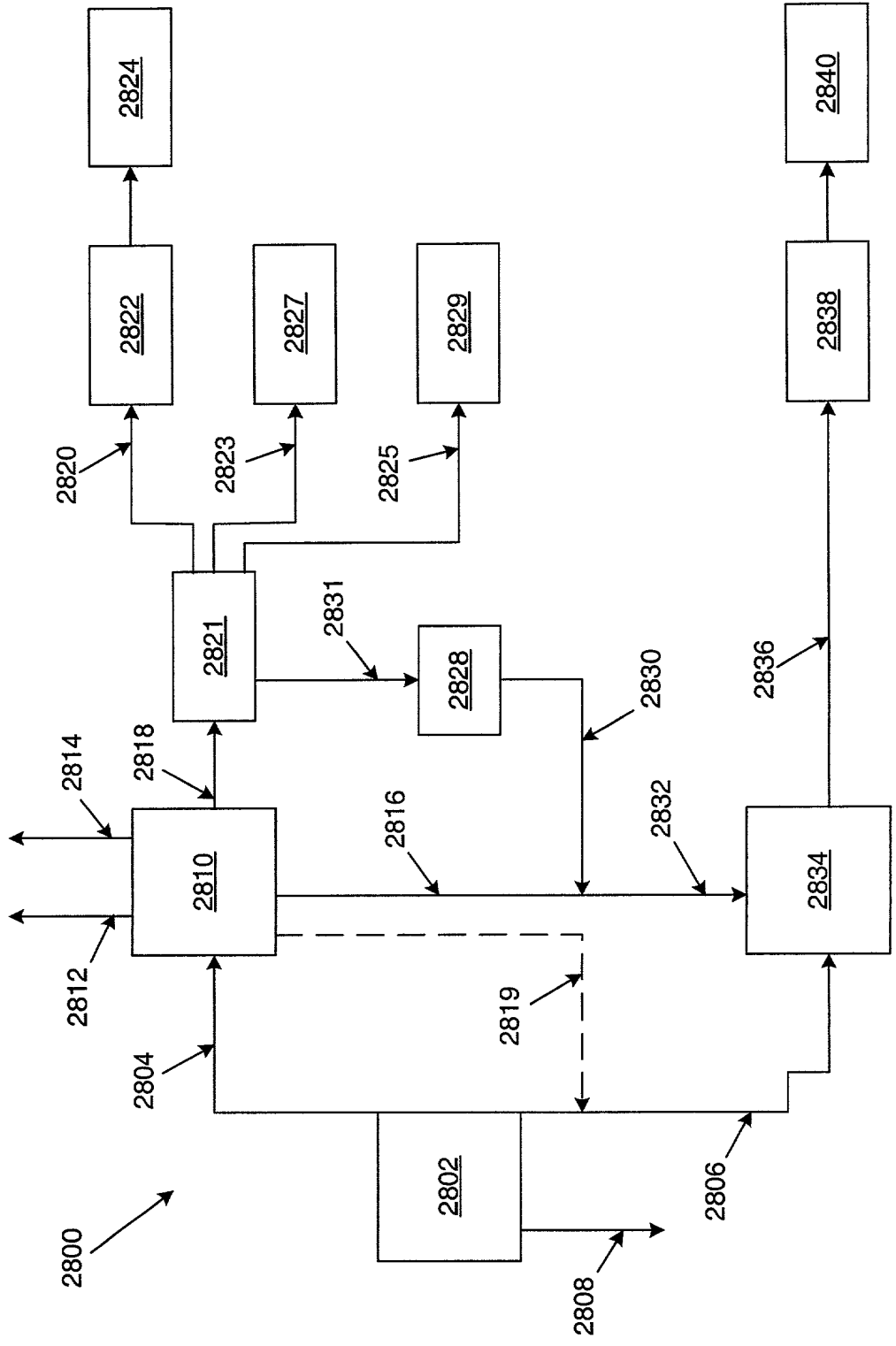


Fig. 71

The diagram illustrates two cross-sectional views of a device. The left view shows a layered structure with various materials indicated by different hatching patterns. Labels point to specific layers: 2850 points to the top layer, 2852 to the bottom-most layer, 2854 to a central dotted layer, 2856 to a layer with diagonal hatching, 2860 to a layer with vertical hatching, 2862 to another layer with vertical hatching, and 2859 to a layer with horizontal hatching. The right view shows a similar structure with label 2858 pointing to its top layer. A large arrow between the two views points downwards.

•

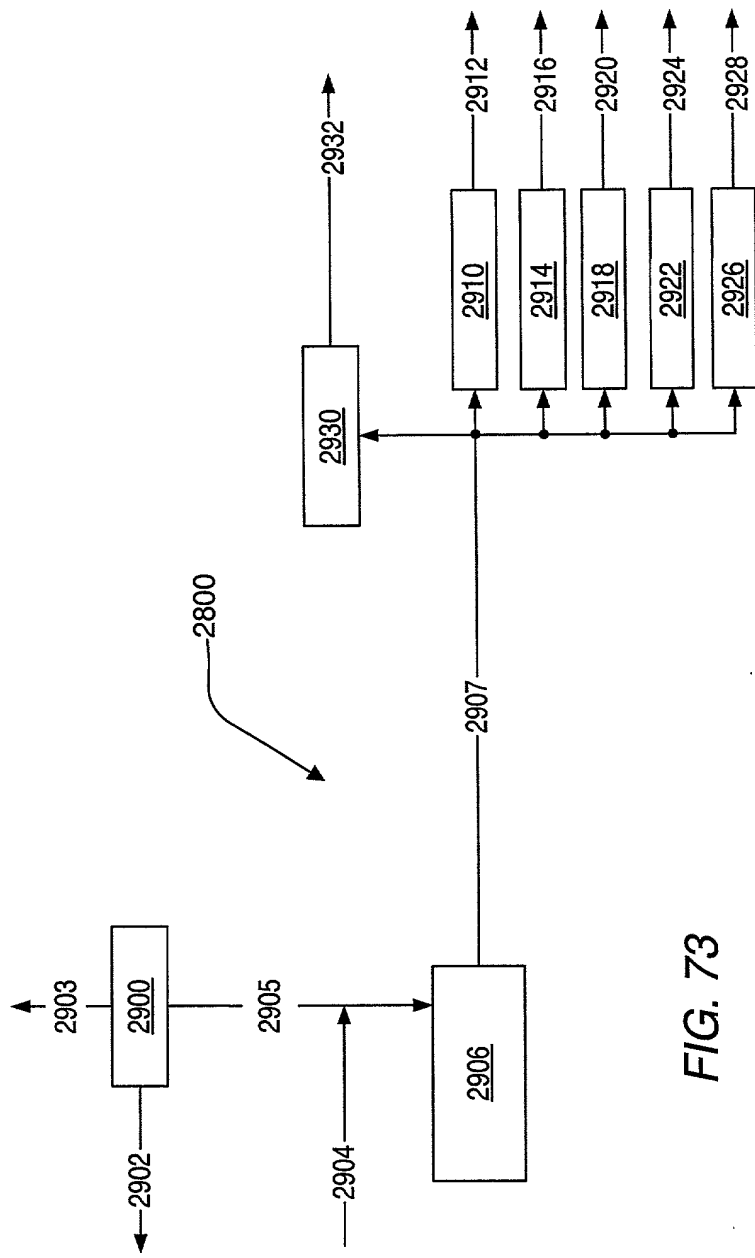


FIG. 73

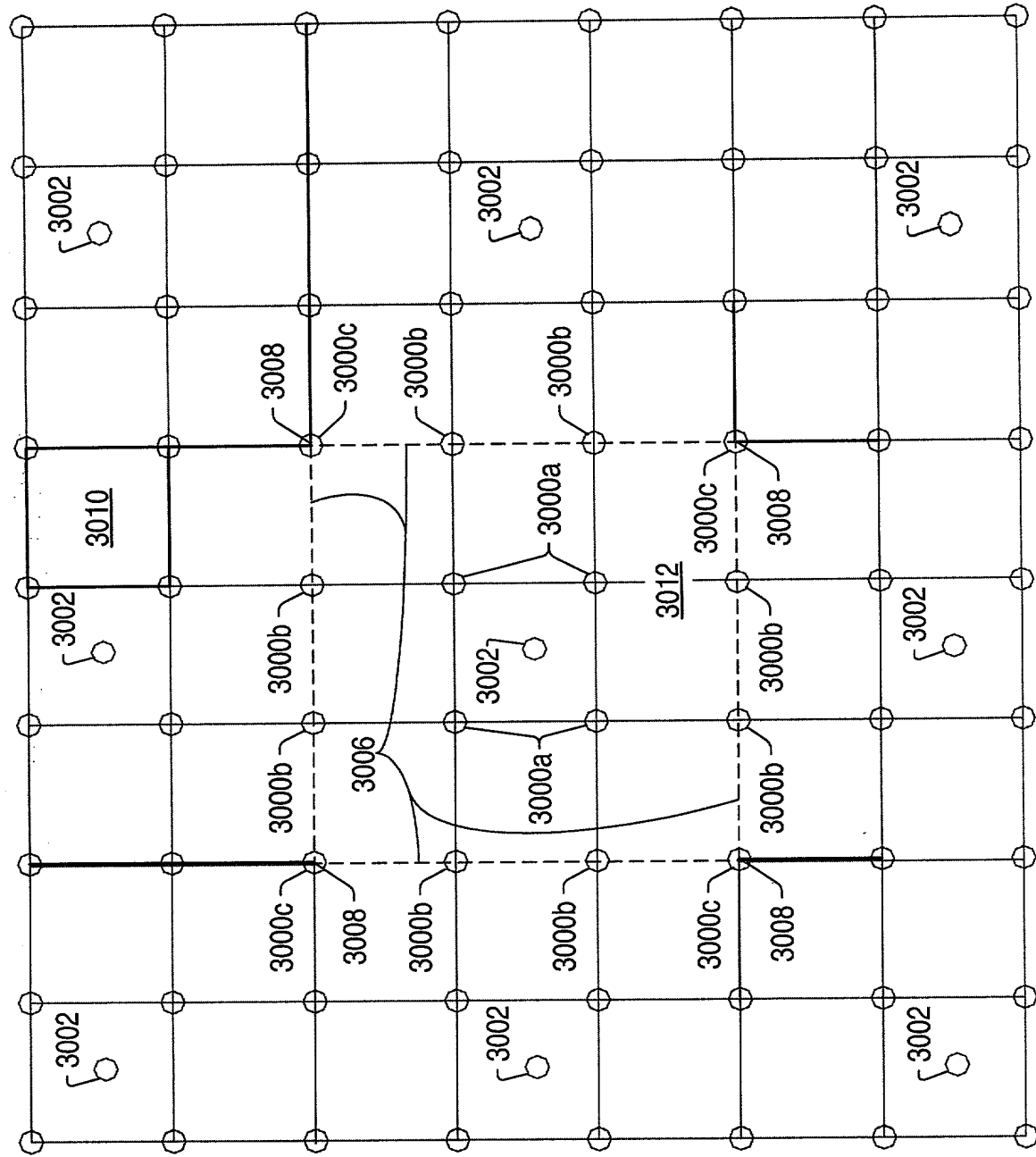


FIG. 74

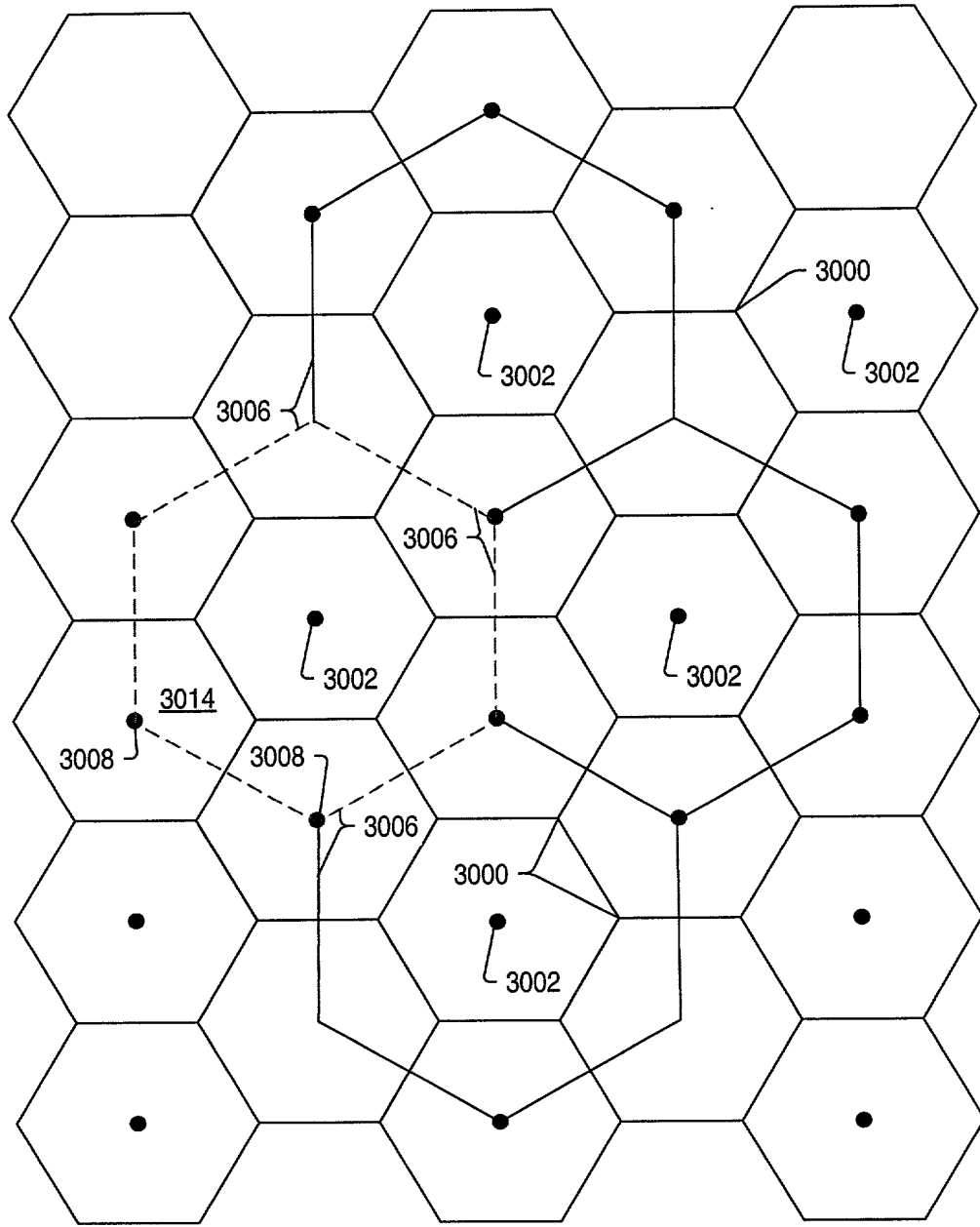


FIG. 75

Diagram illustrating a hexagonal lattice structure, labeled 3100. The lattice is composed of interconnected hexagonal cells. Nodes are represented by black dots, and edges are represented by lines. Specific labels include 3102 pointing to a node, 3116 pointing to an edge, and 3118 pointing to a node.

FIG. 76

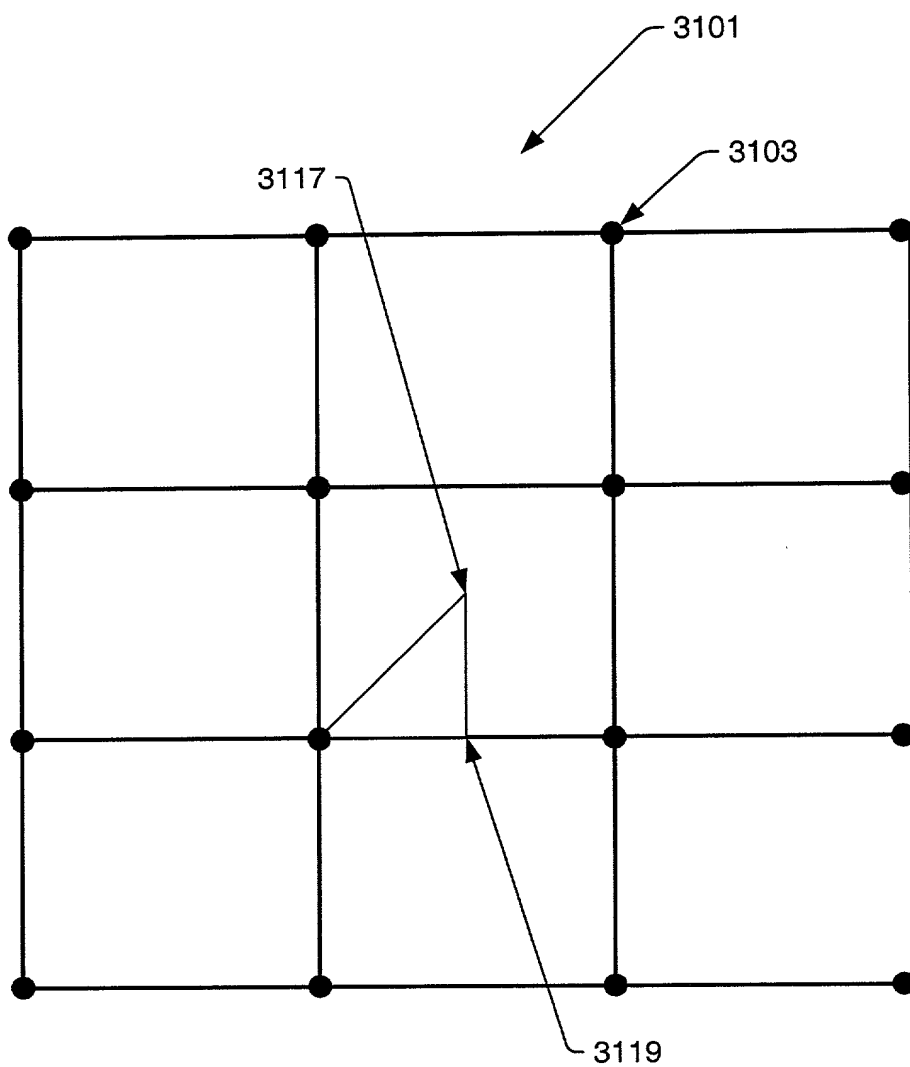


FIG. 76a

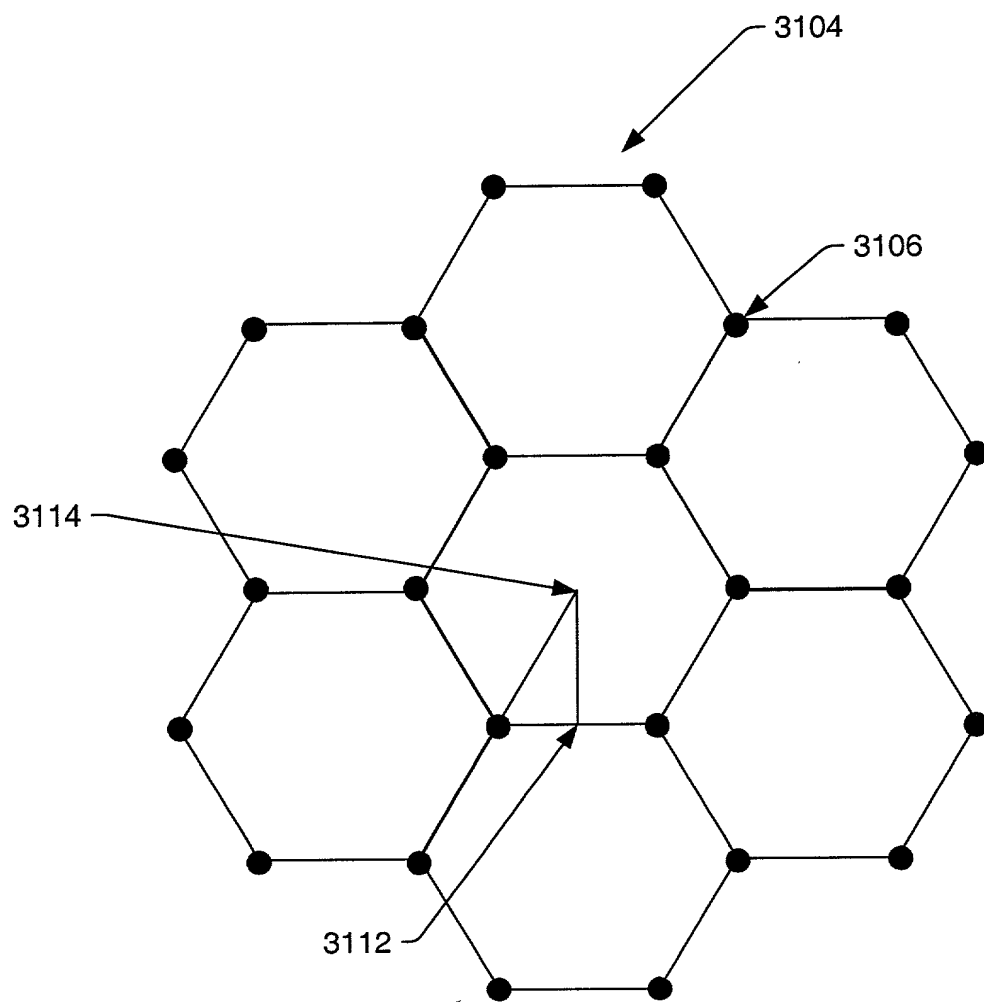


FIG. 77

T04240" 000T4860

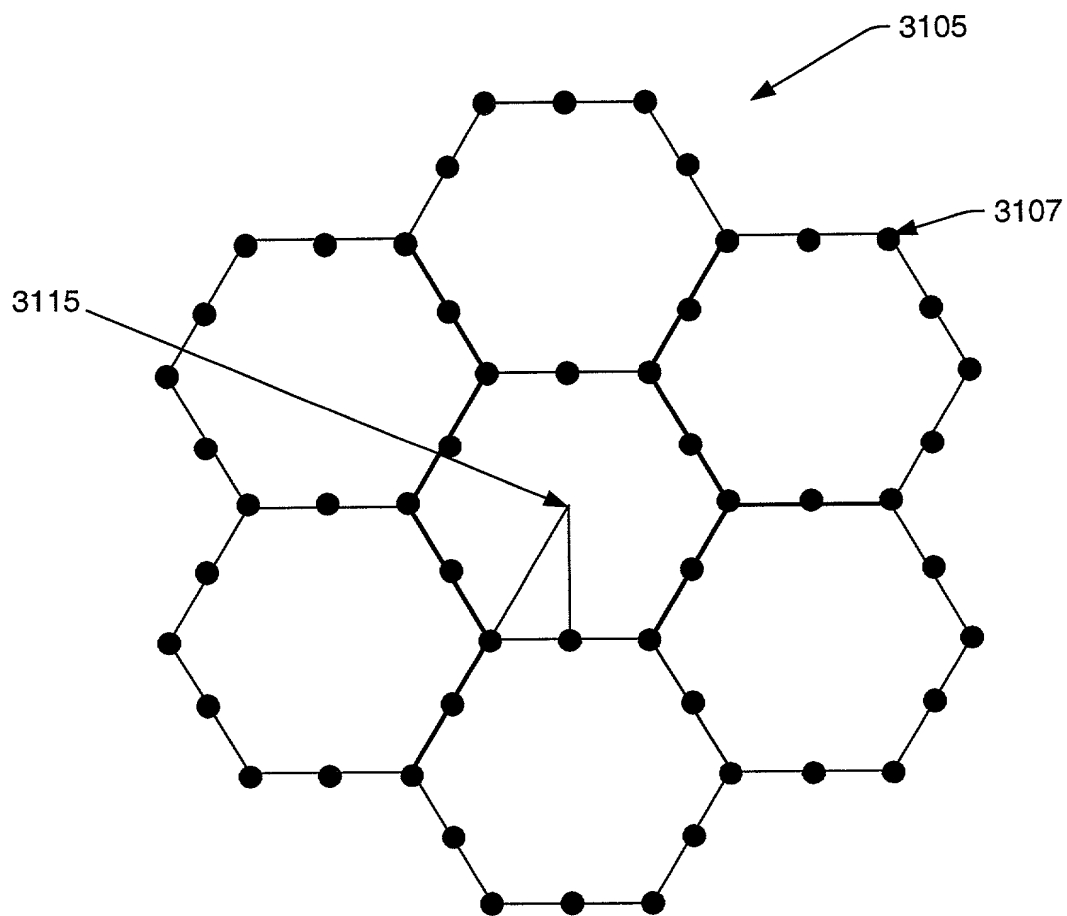


FIG. 77a

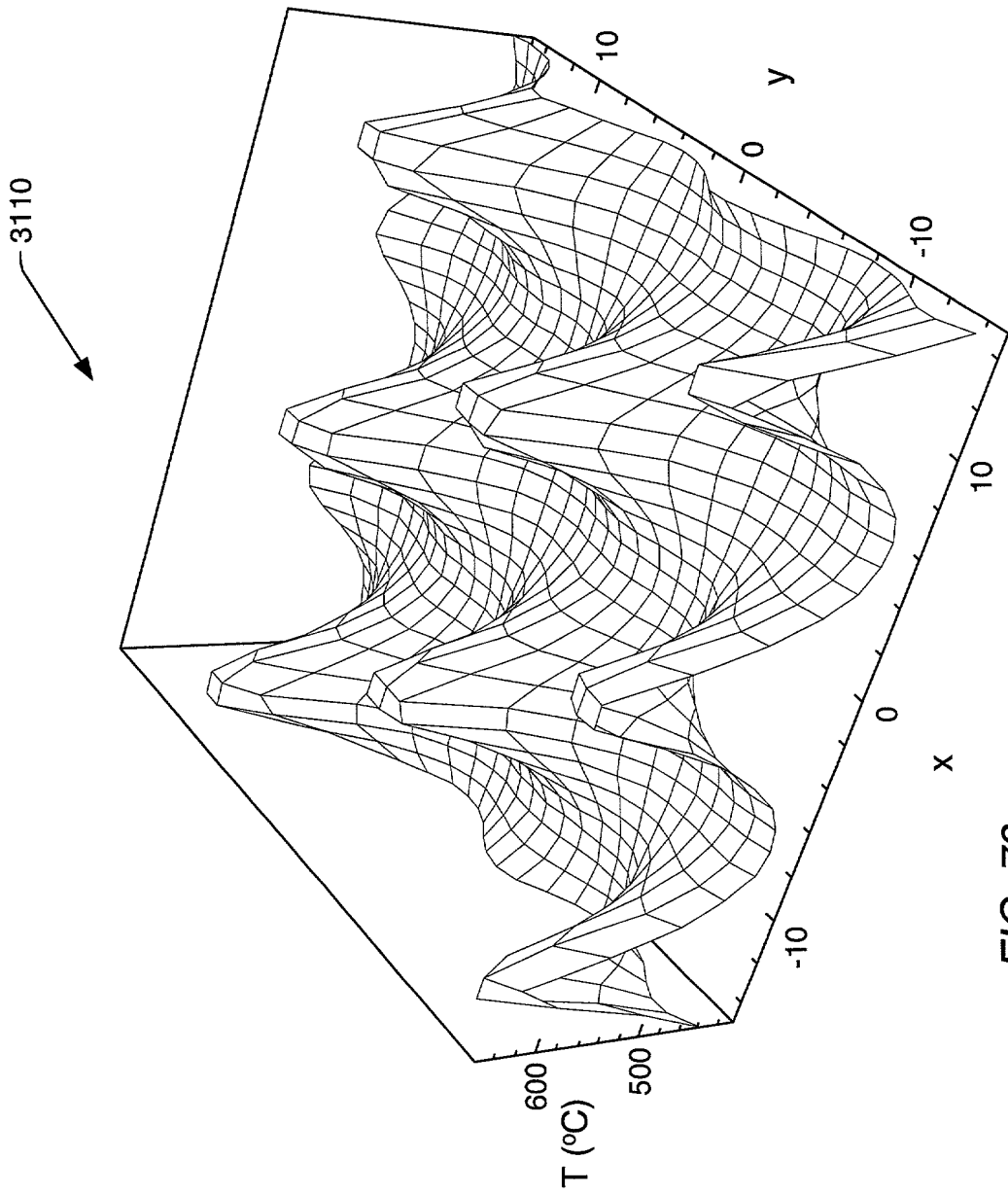


FIG. 78

00014860

3108

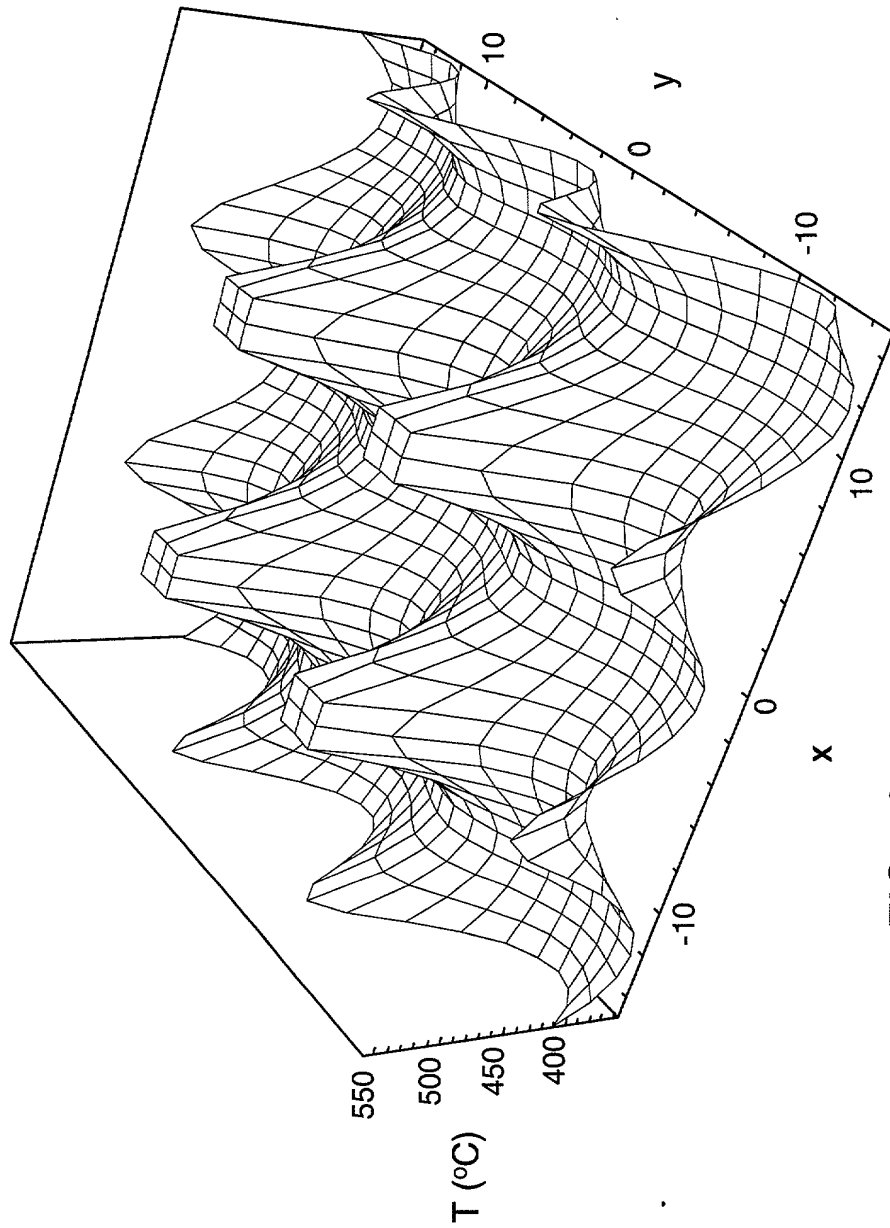


FIG. 79

3109

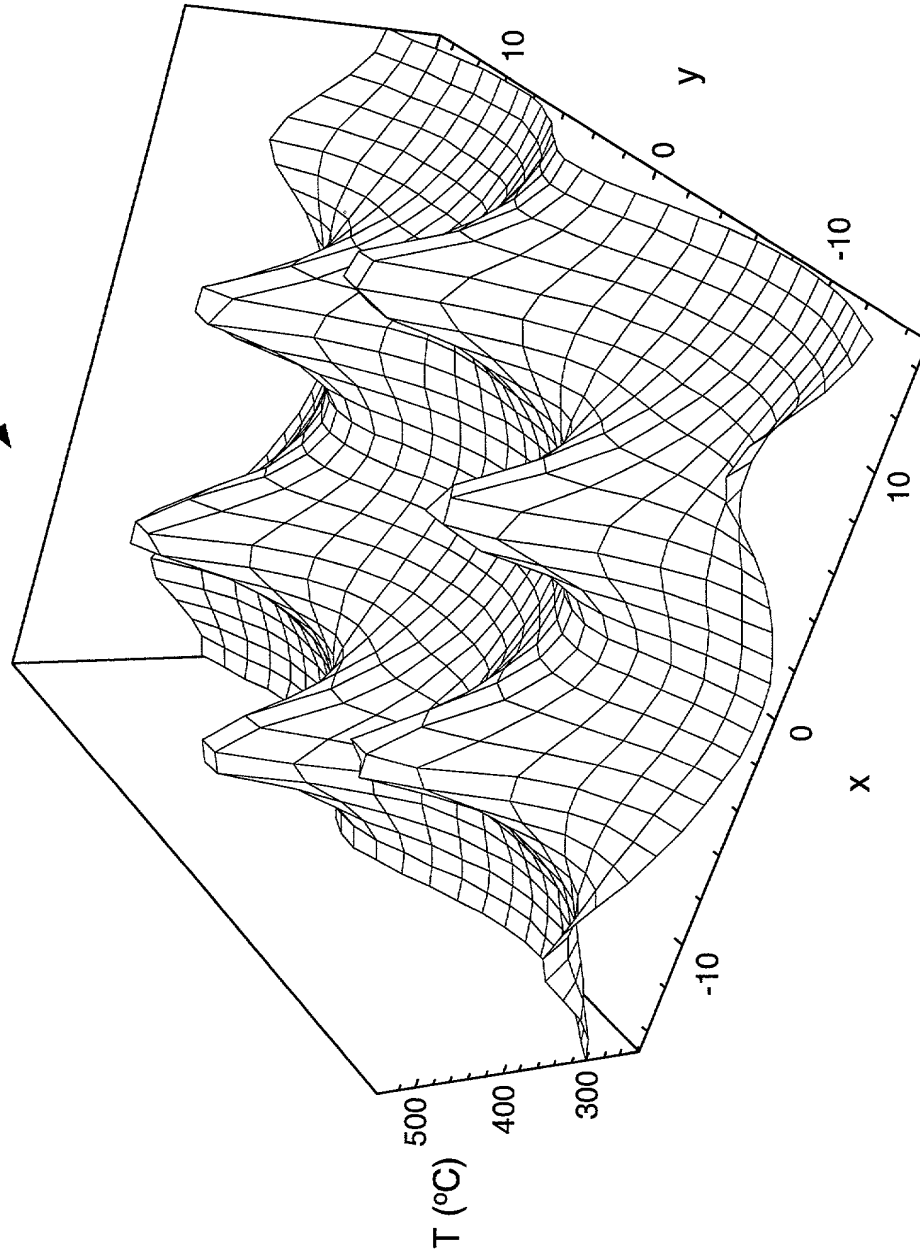


FIG. 79a

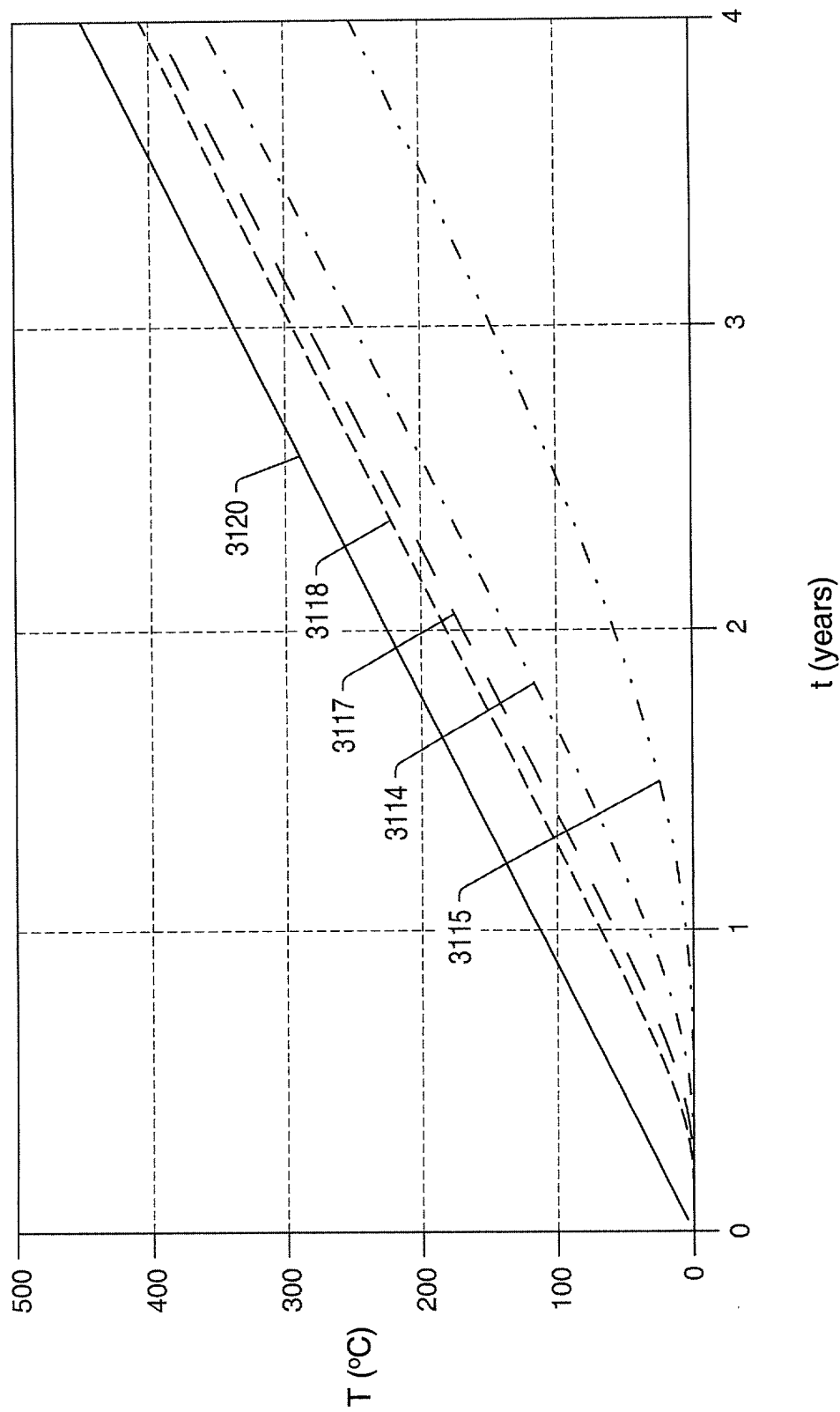


FIG. 80

FOI240" 000T4860

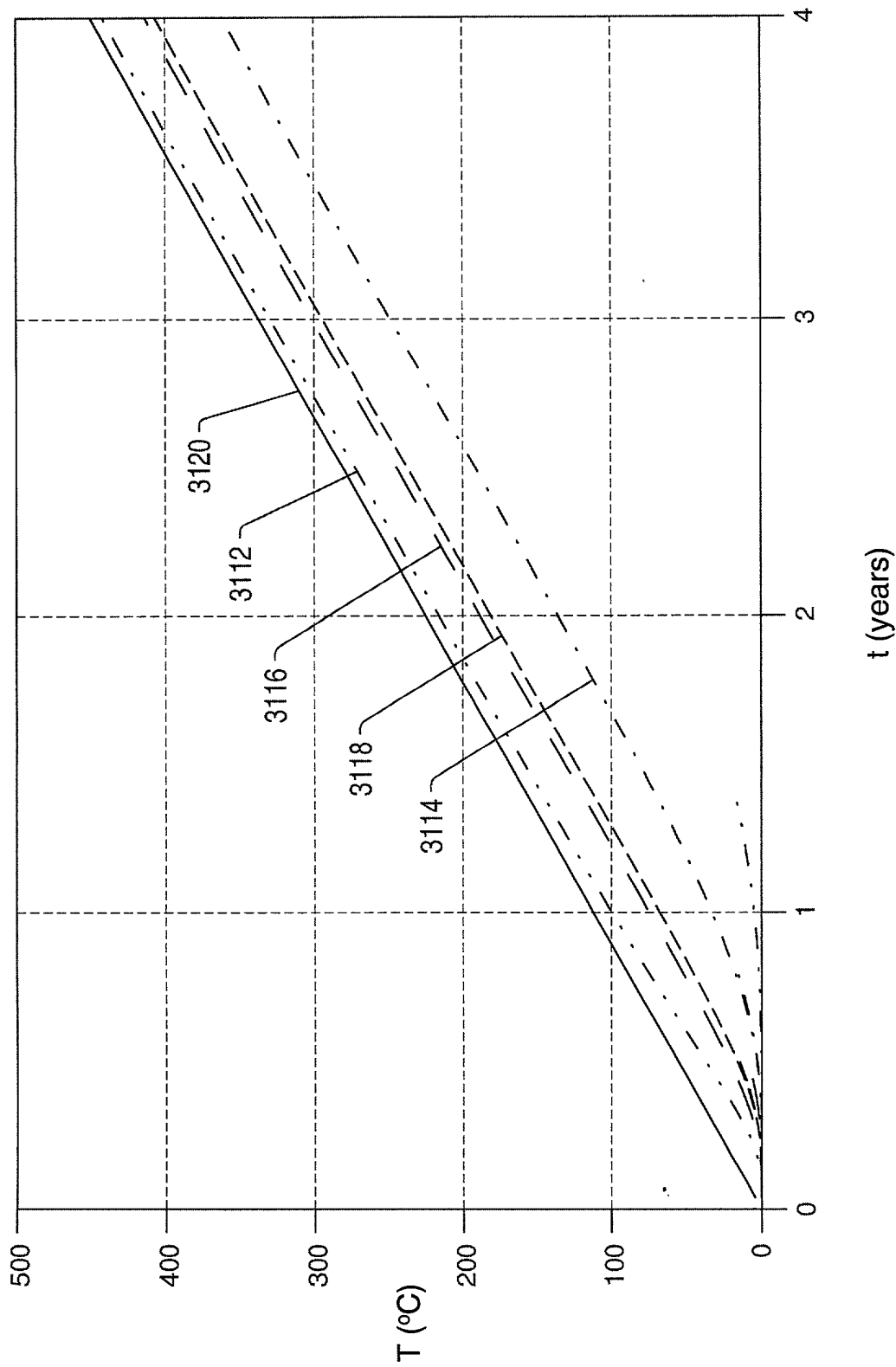


FIG. 81

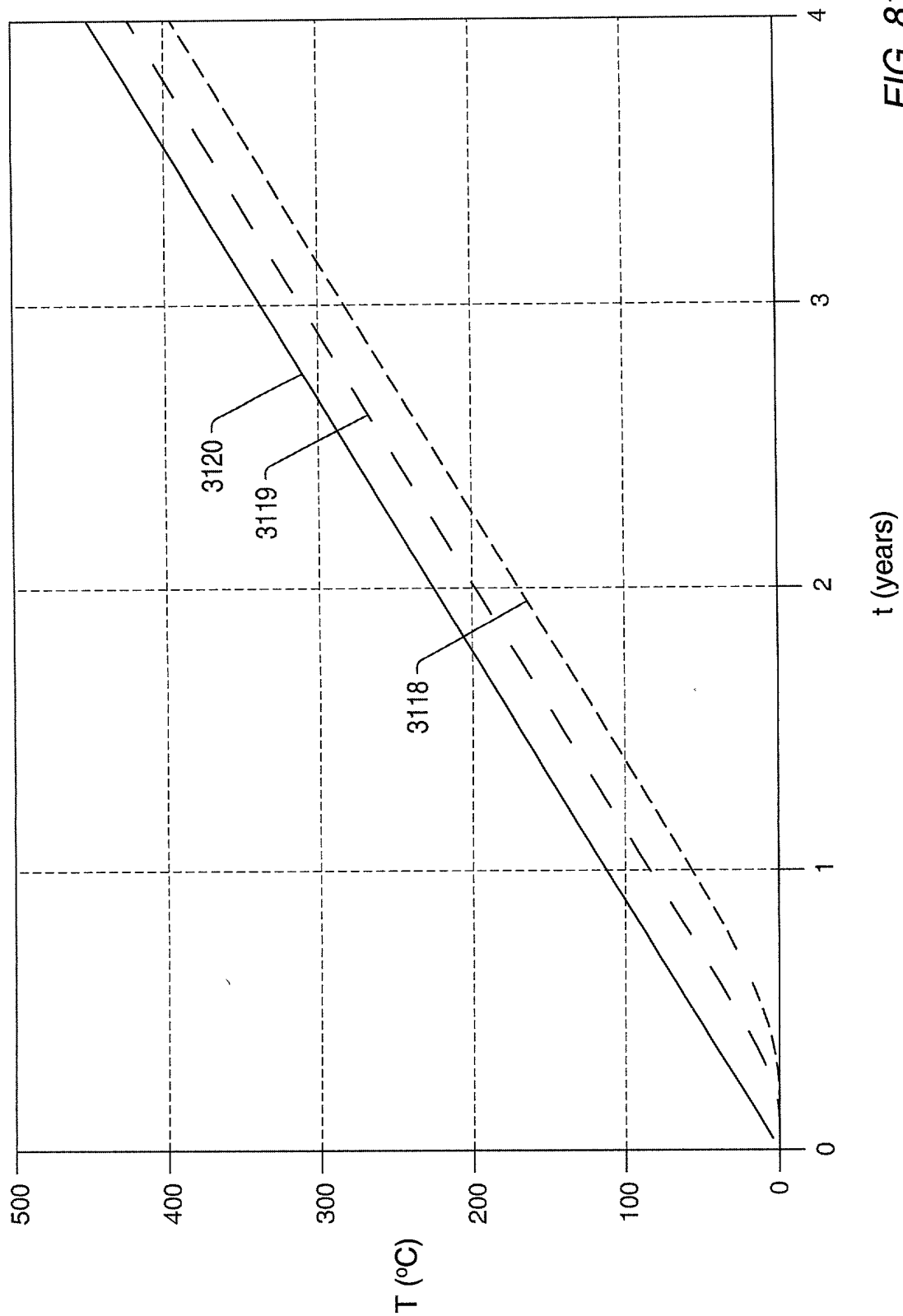


FIG. 81a

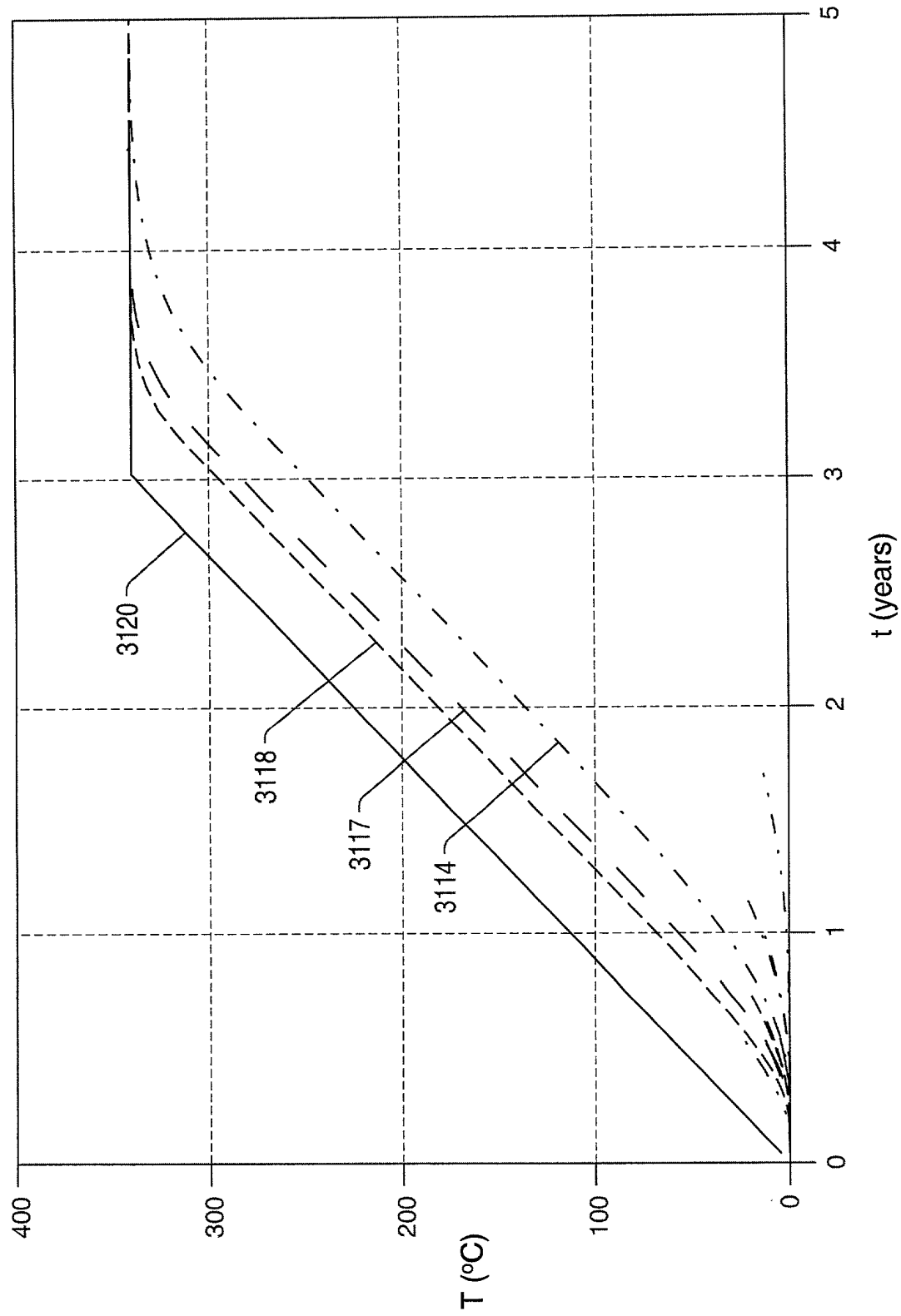


FIG. 81b

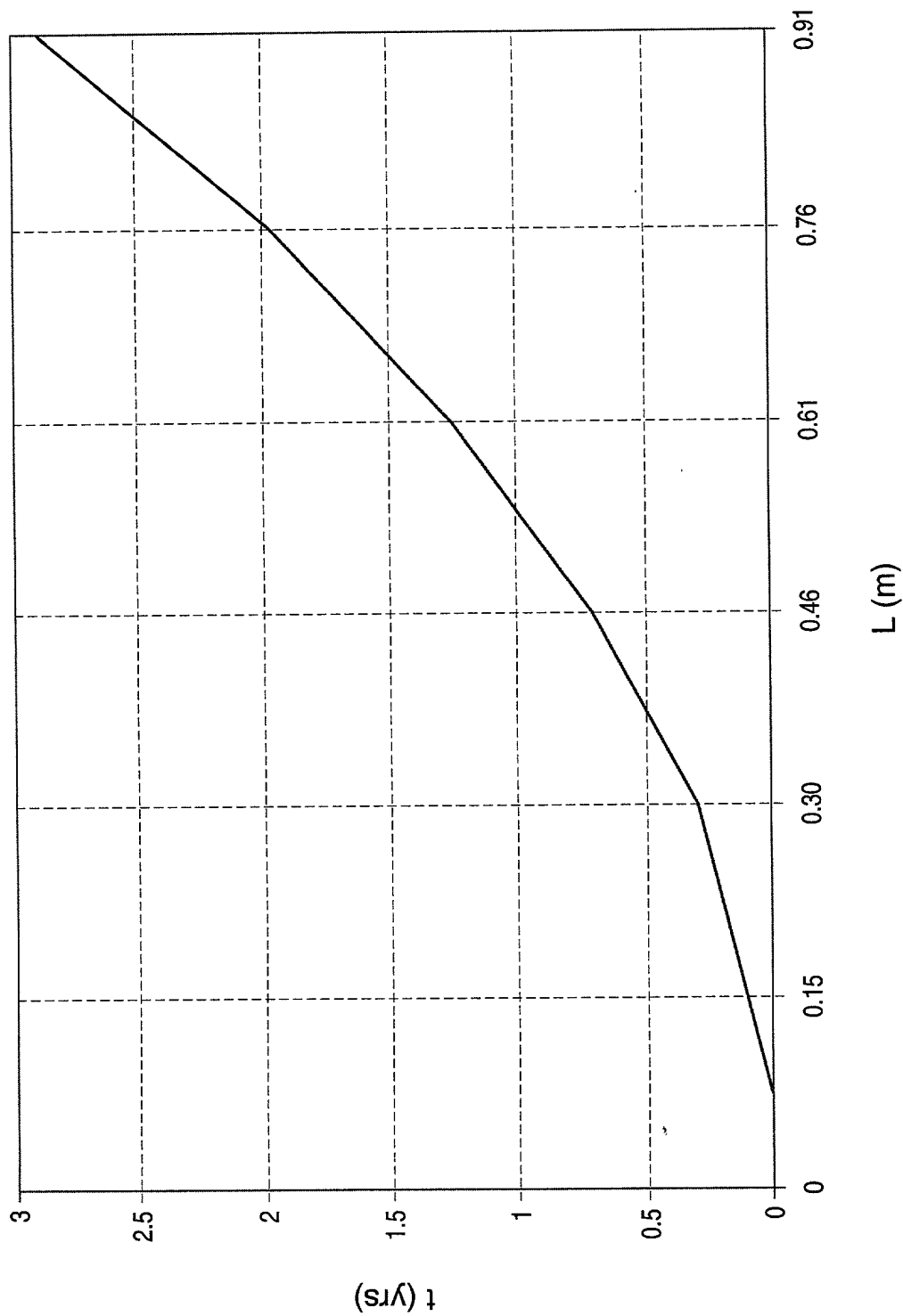


FIG. 82

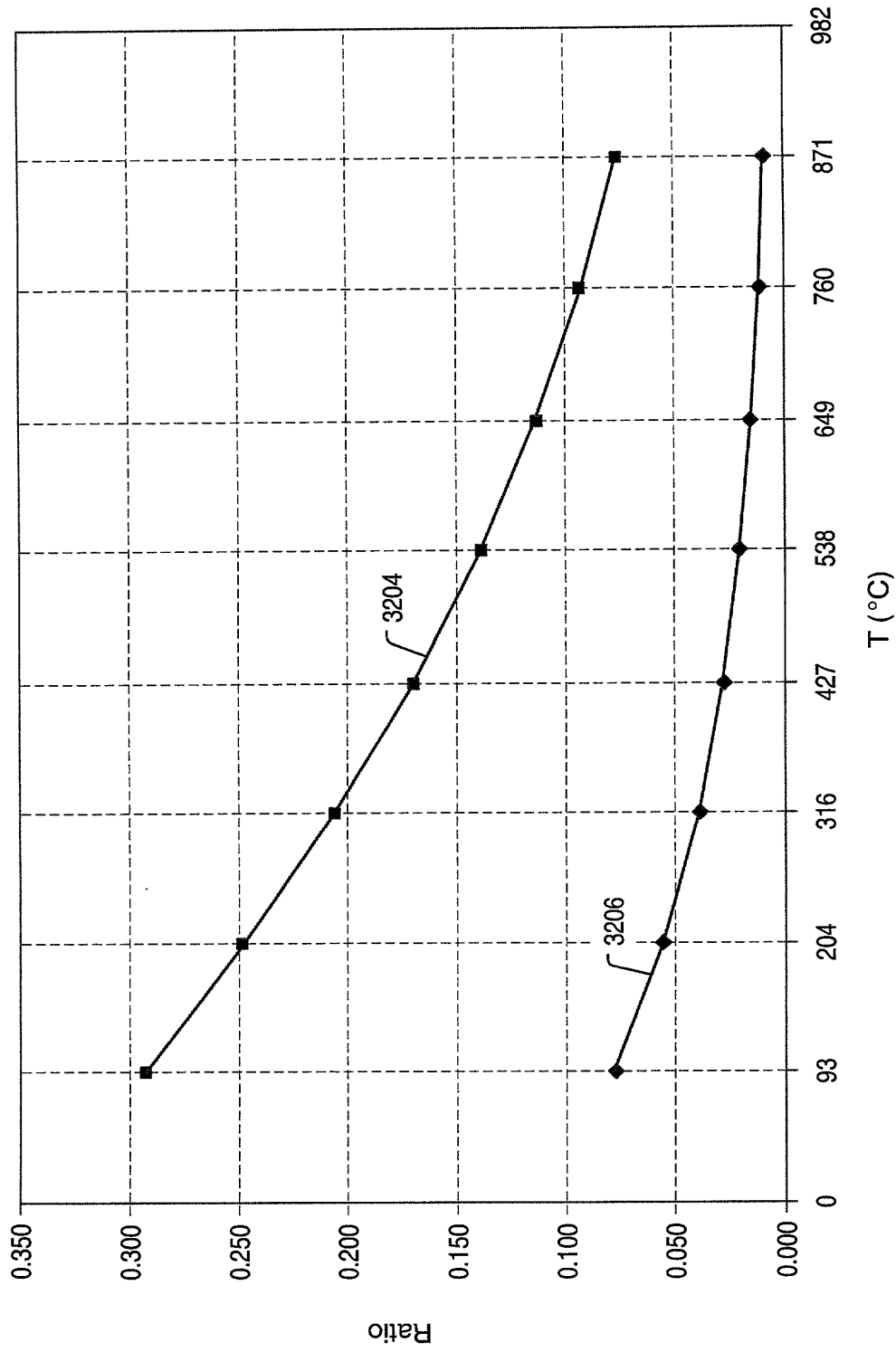


FIG. 83

FOH240" 000FH860

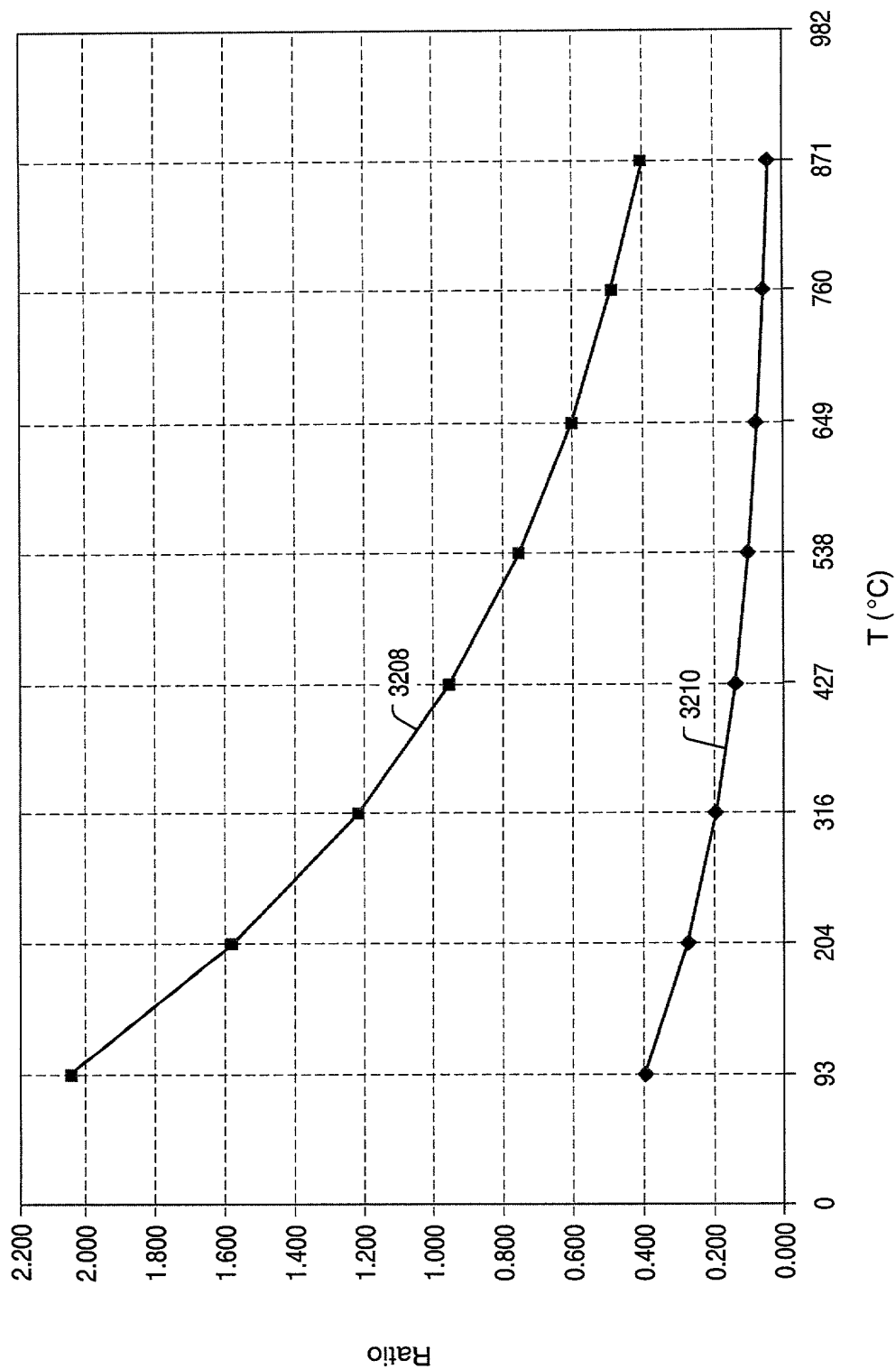


FIG. 84

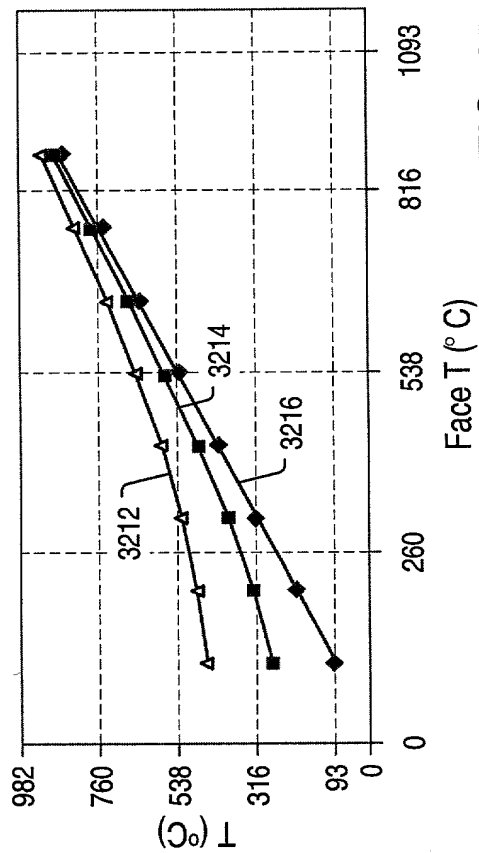


FIG. 85

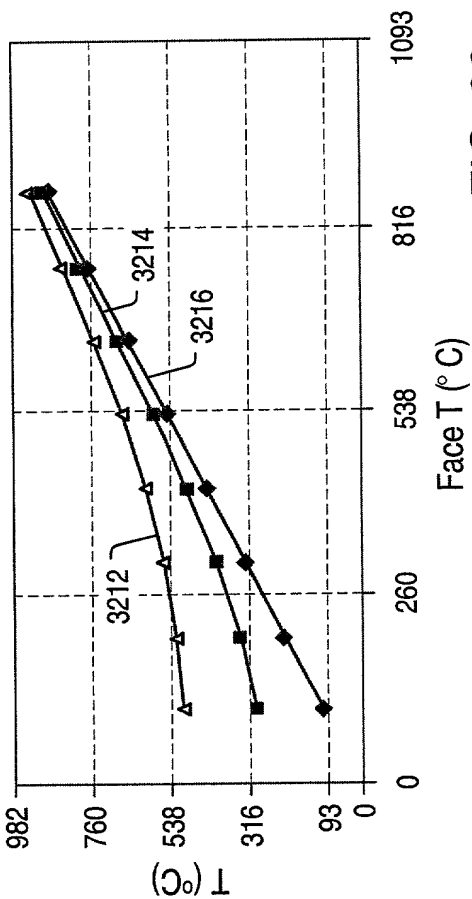


FIG. 86

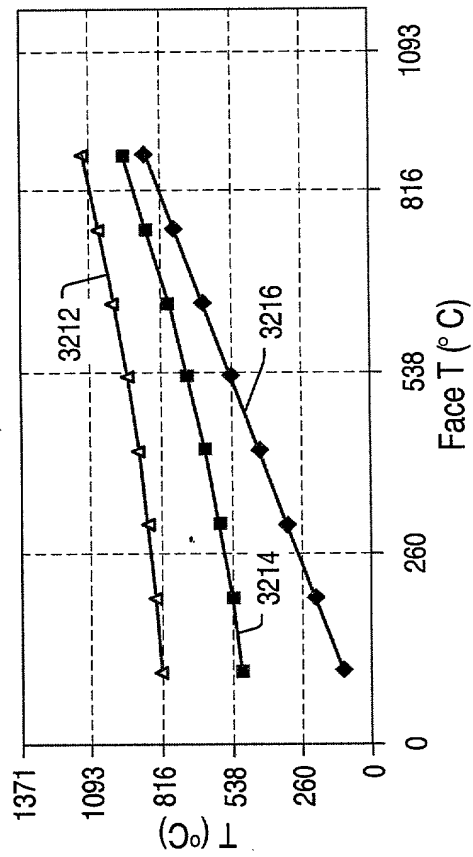


FIG. 87

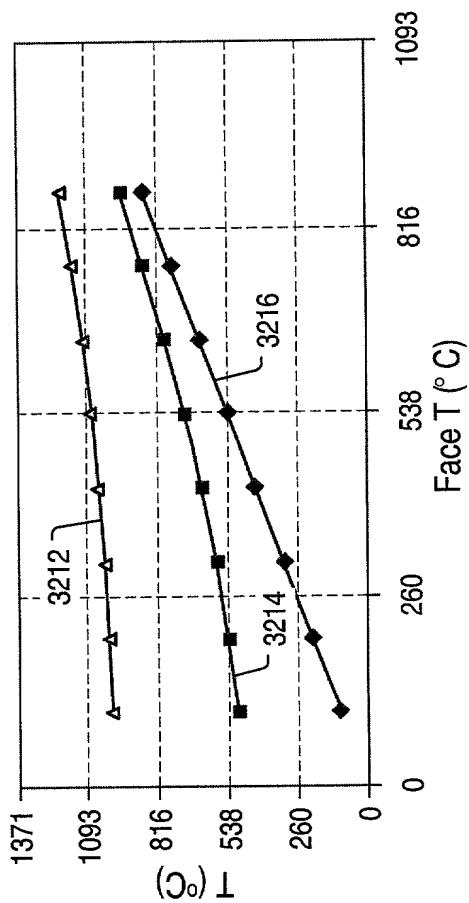


FIG. 88

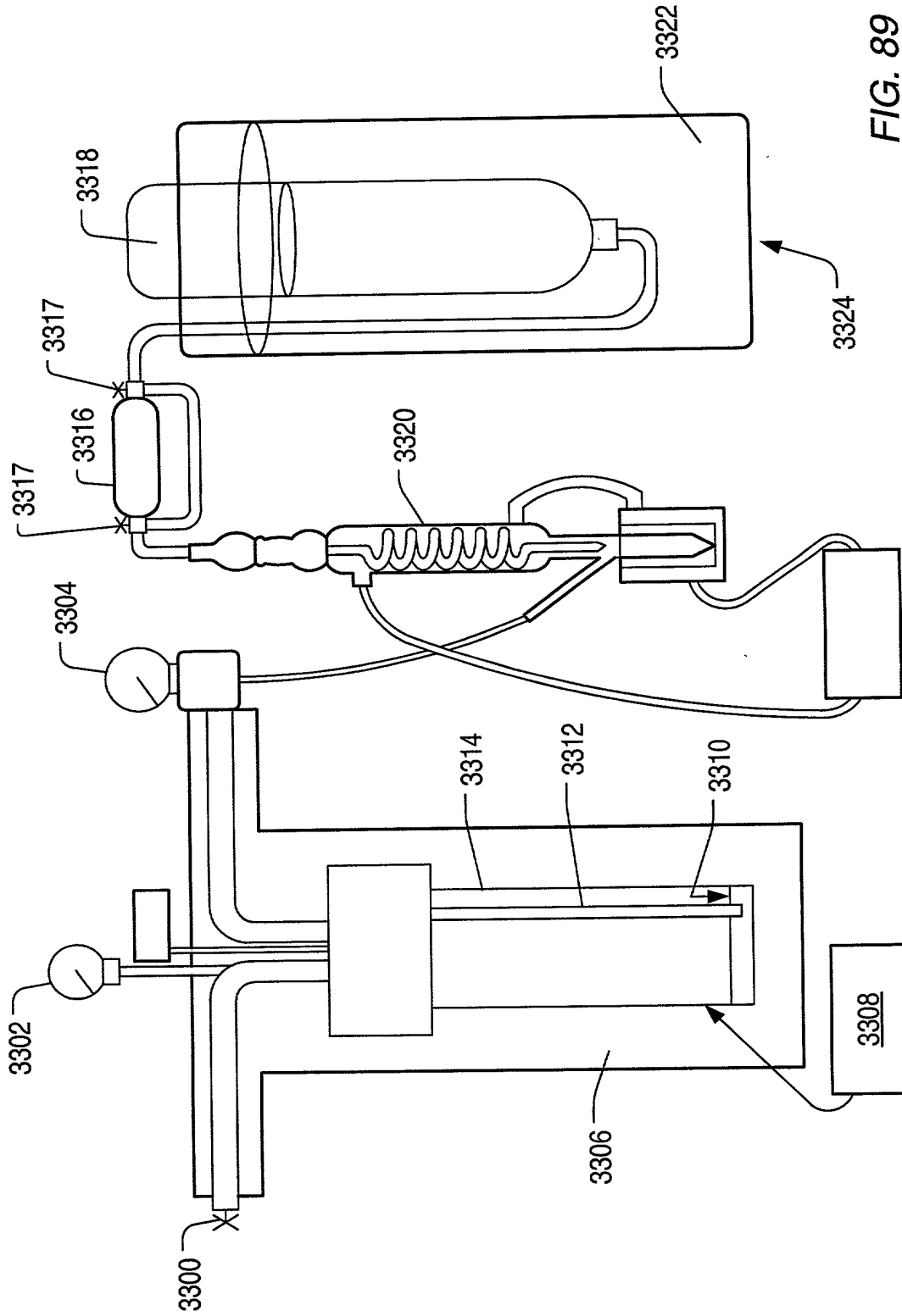


FIG. 89

T04240" 000T4360

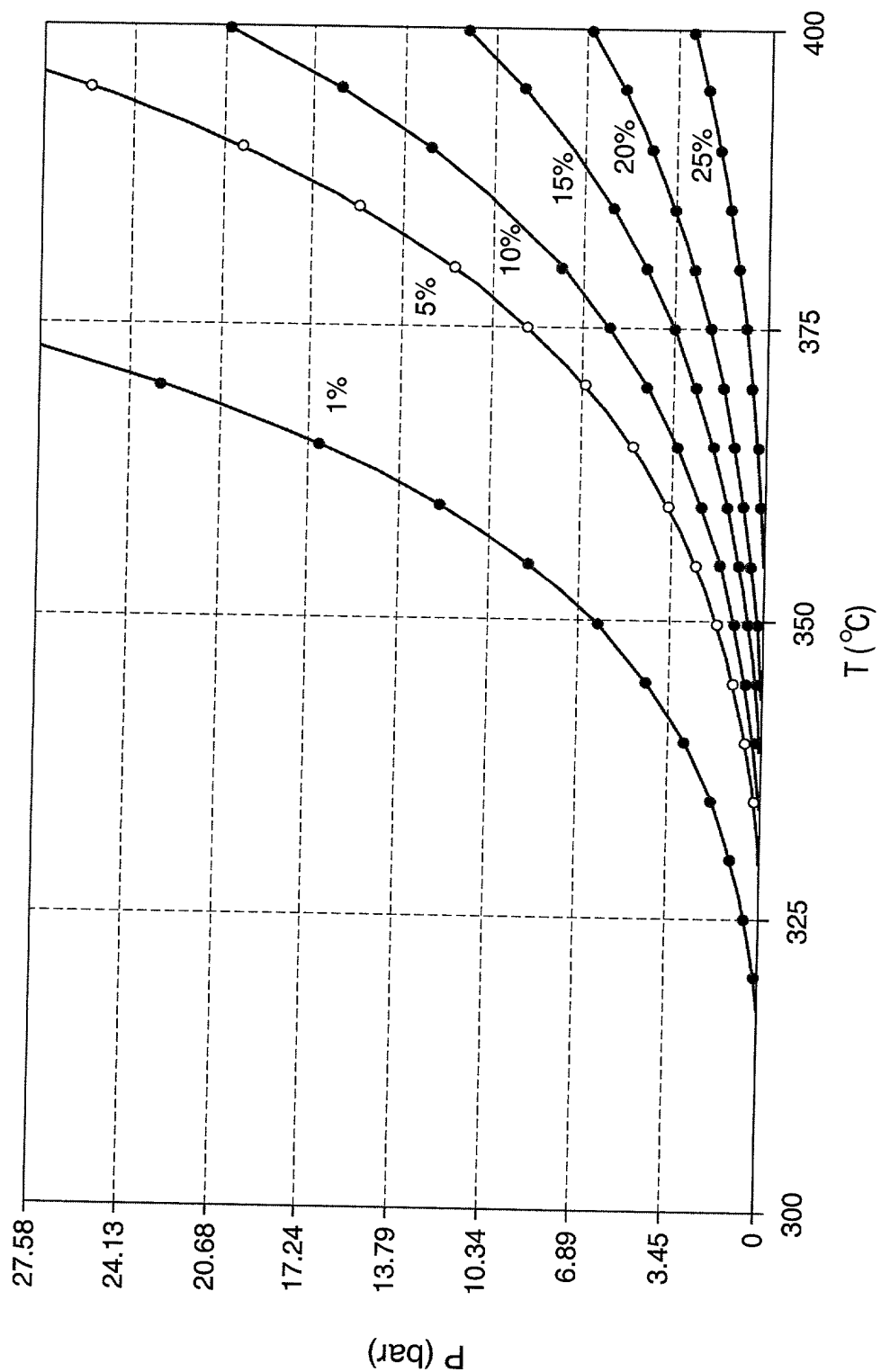


FIG. 90

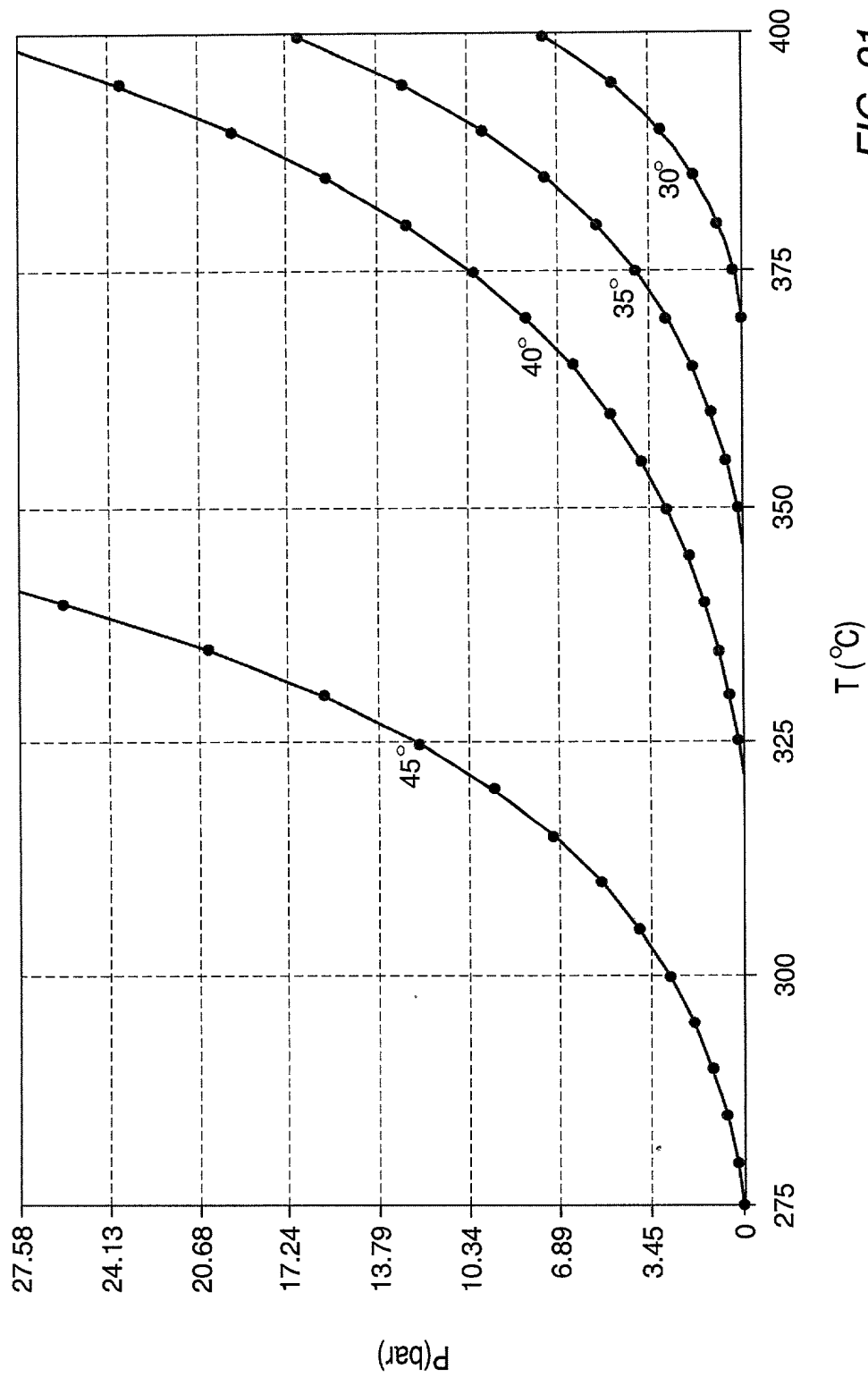


FIG. 91

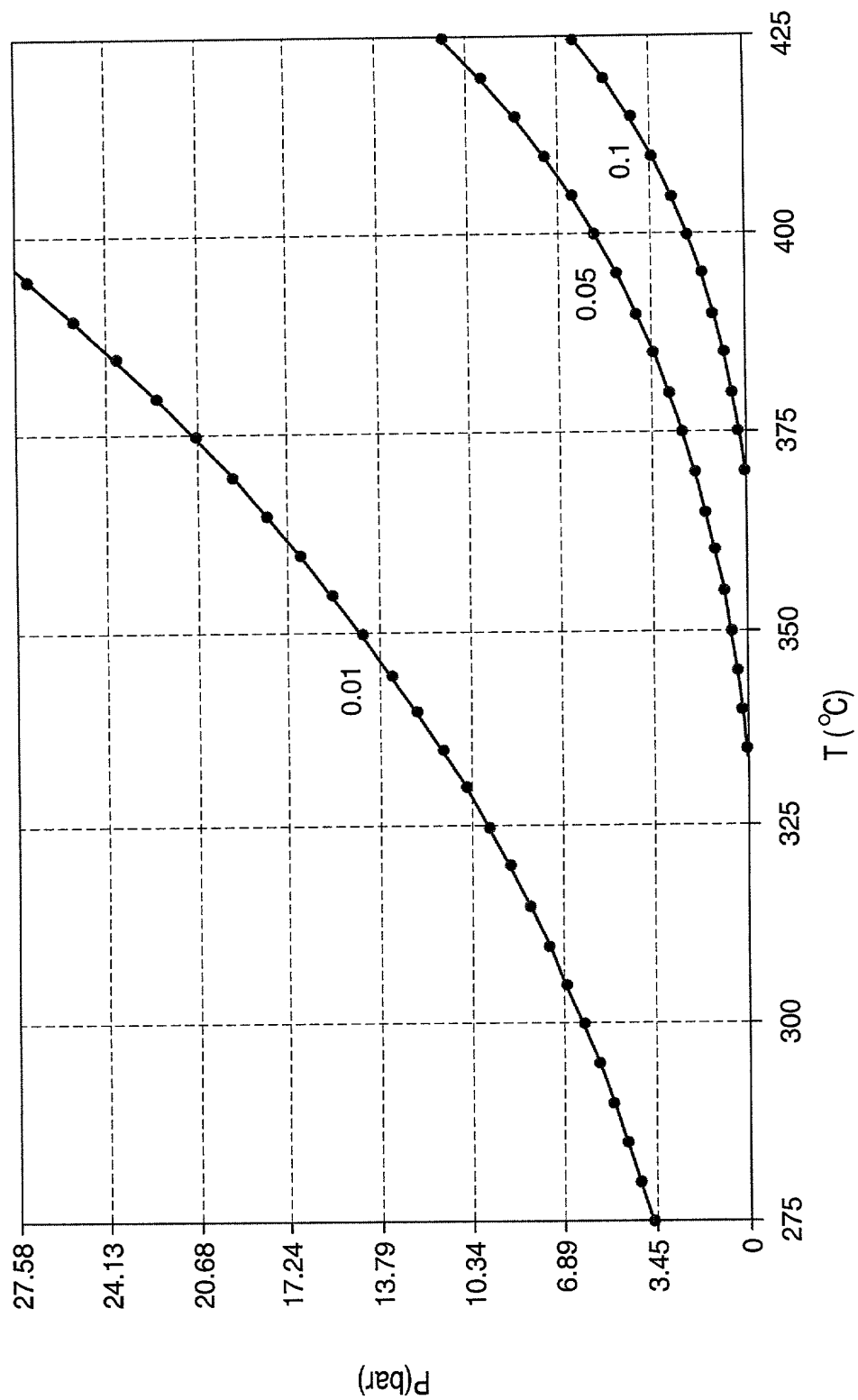


FIG. 92

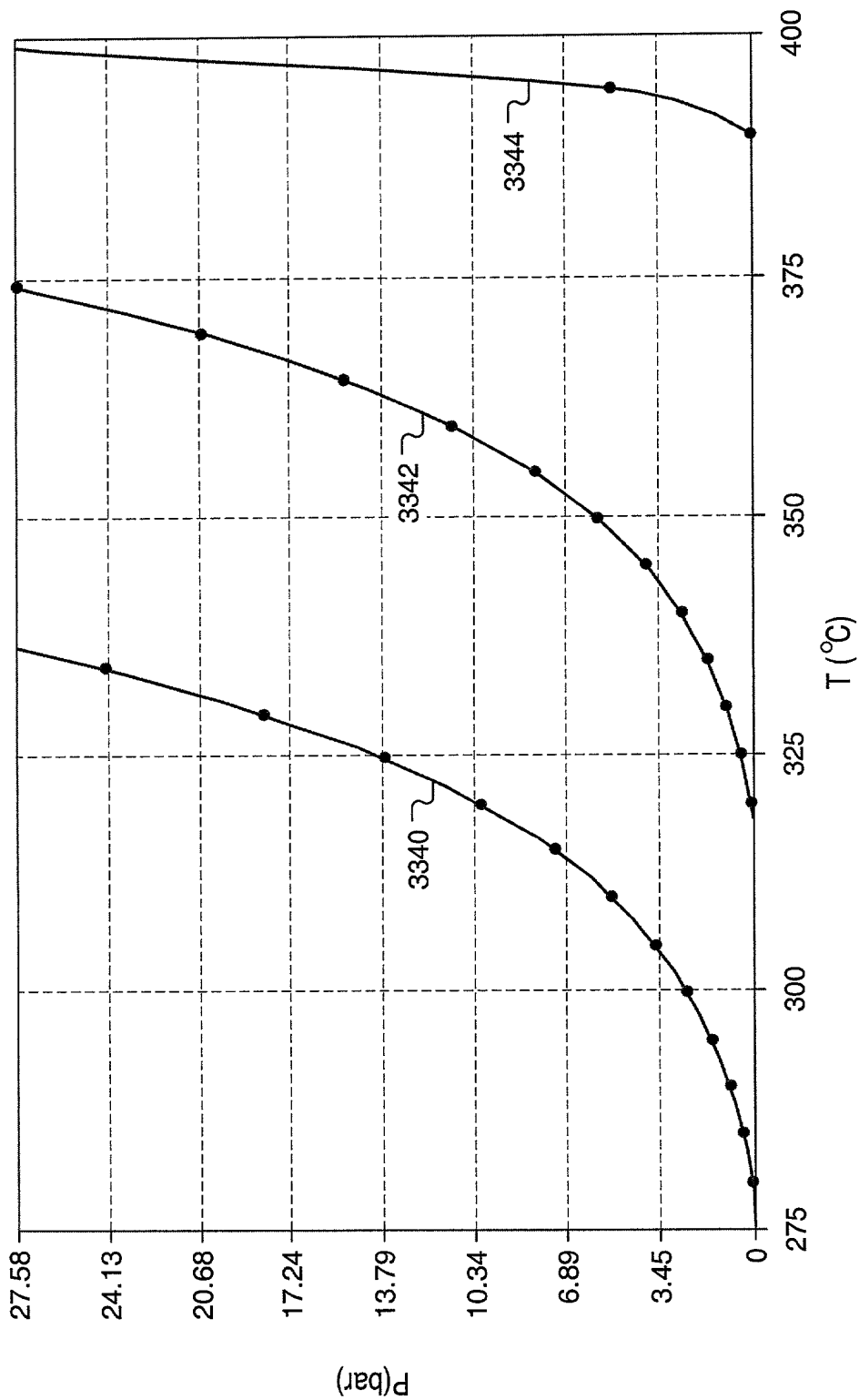


FIG. 93

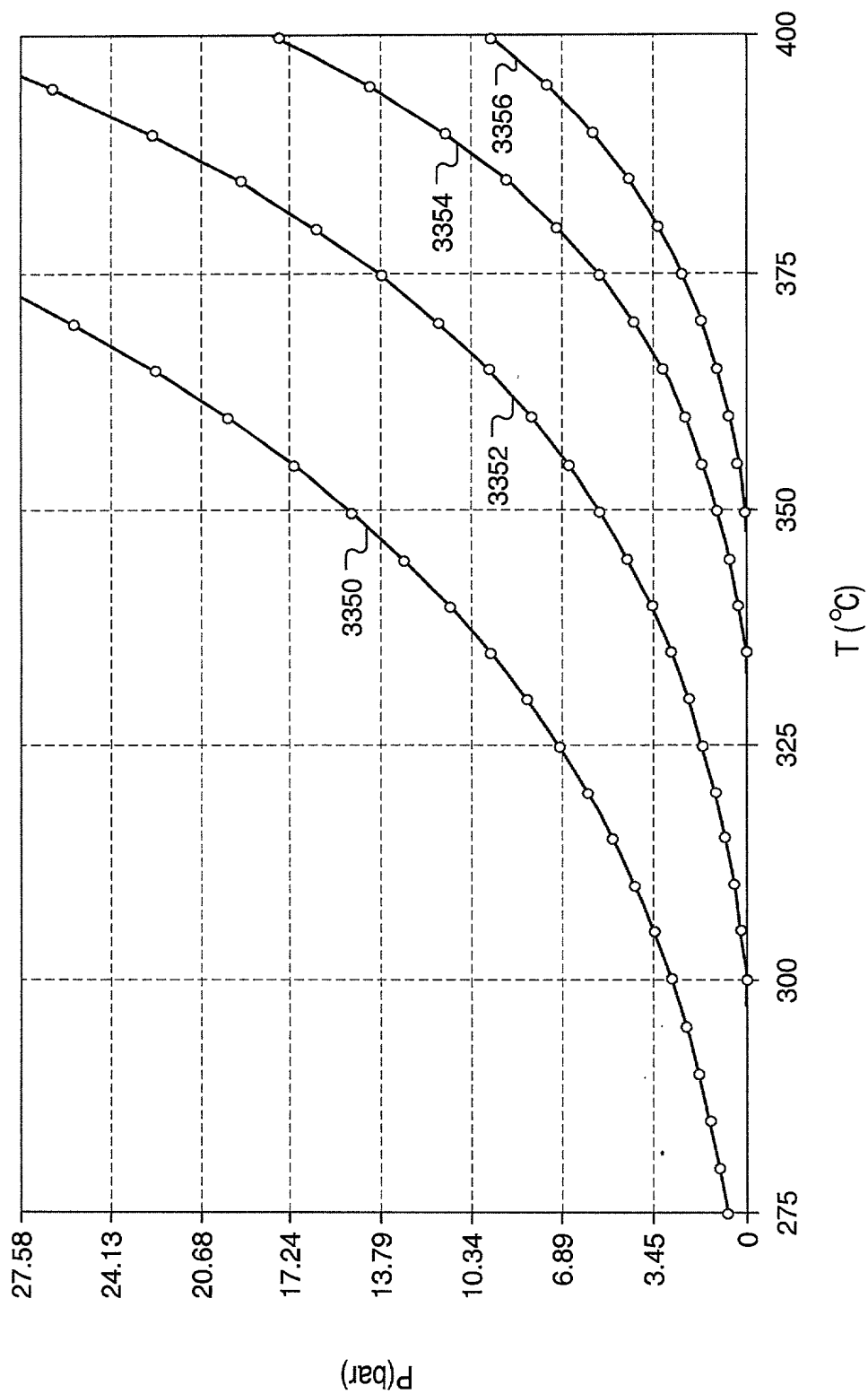


FIG. 94

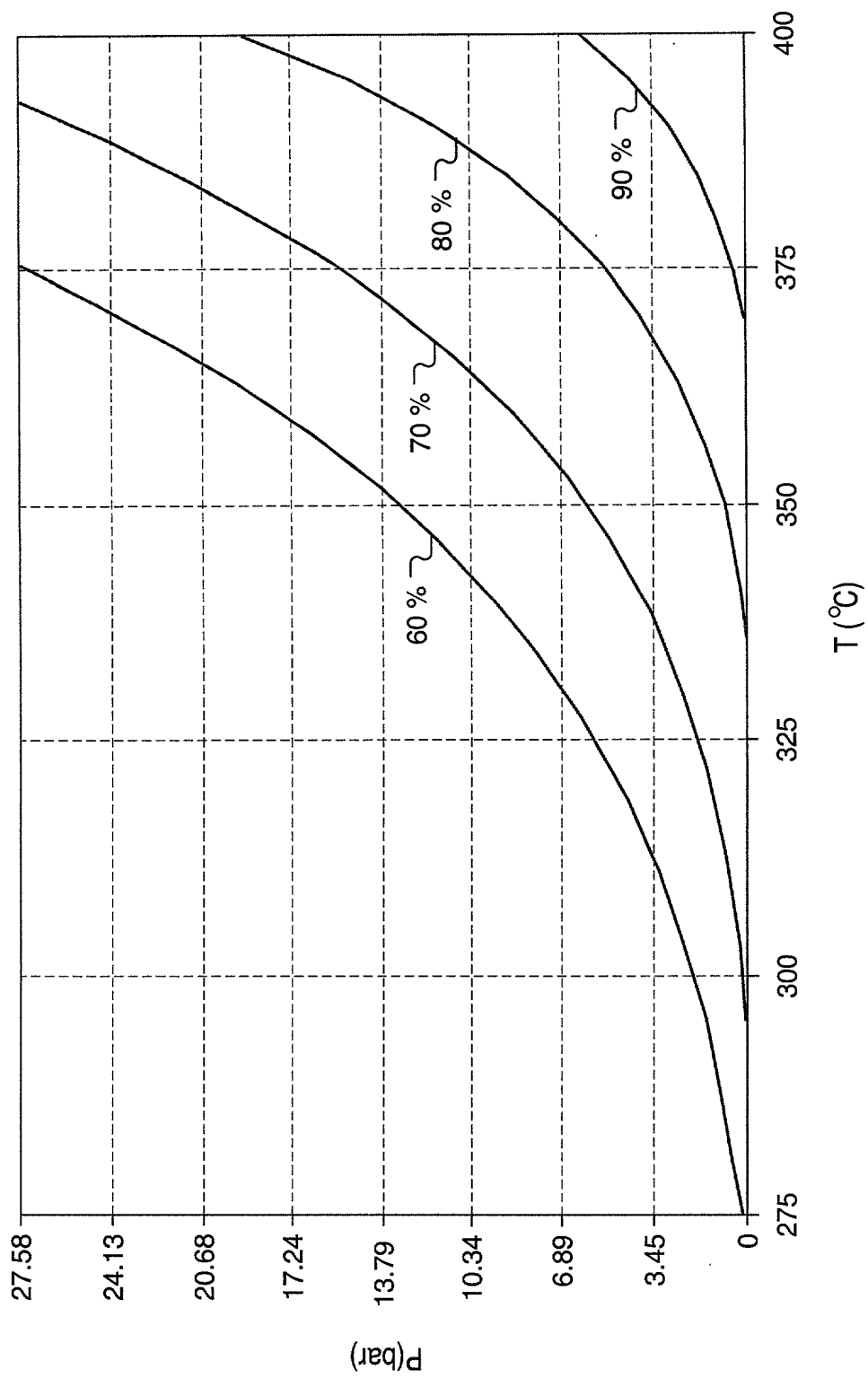


FIG. 95

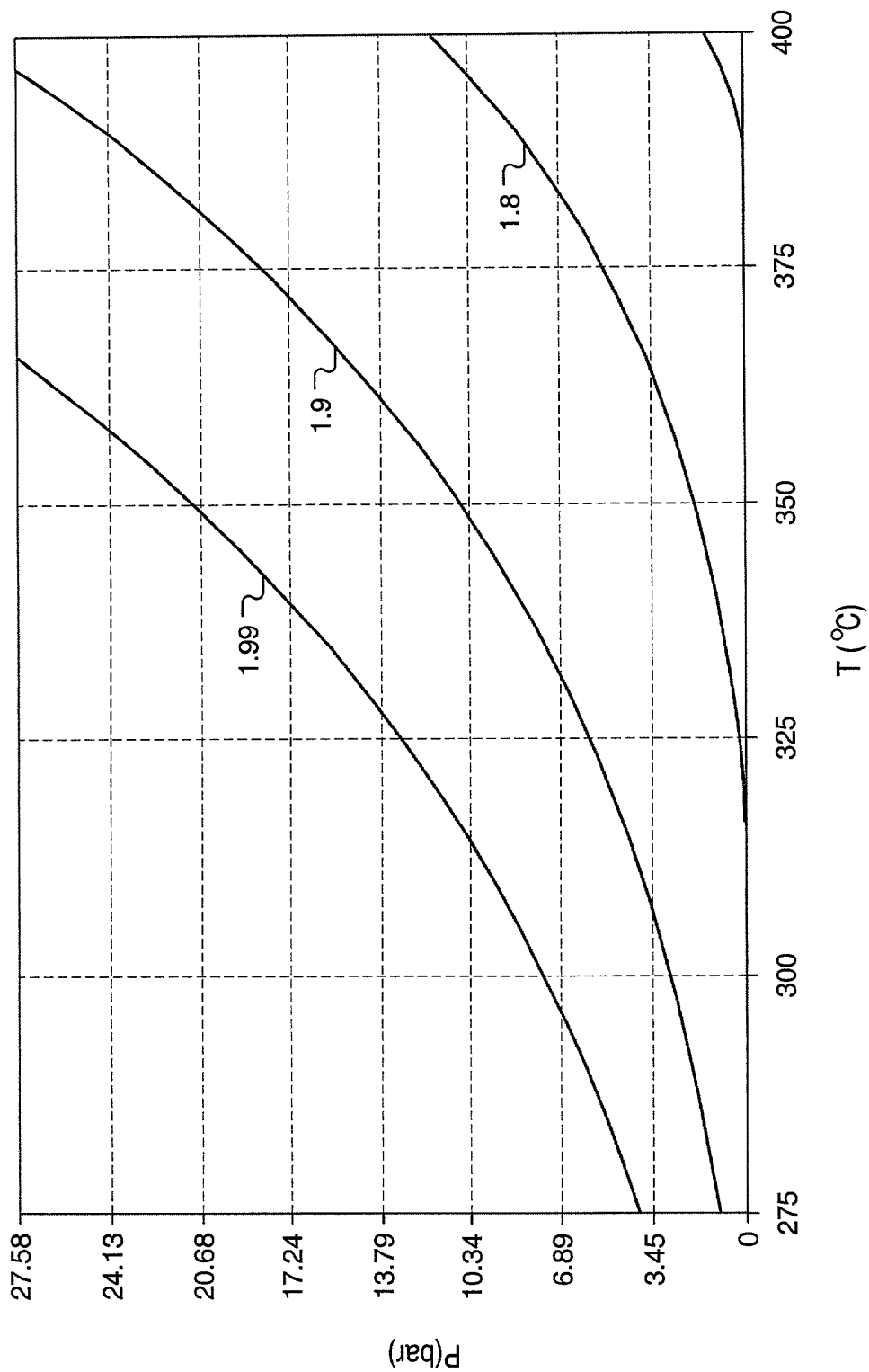


FIG. 96

FOU4240" 000T4860

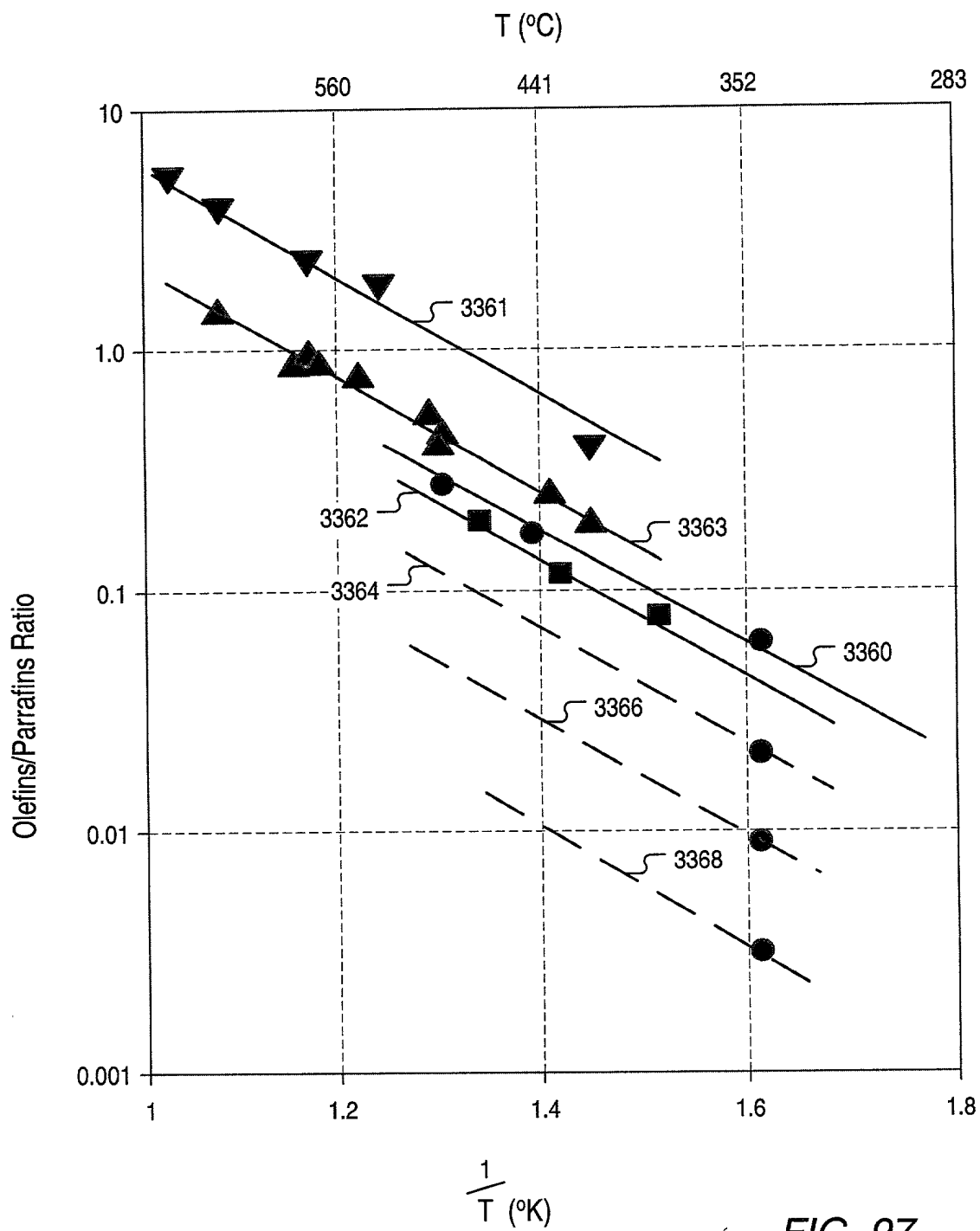


FIG. 97

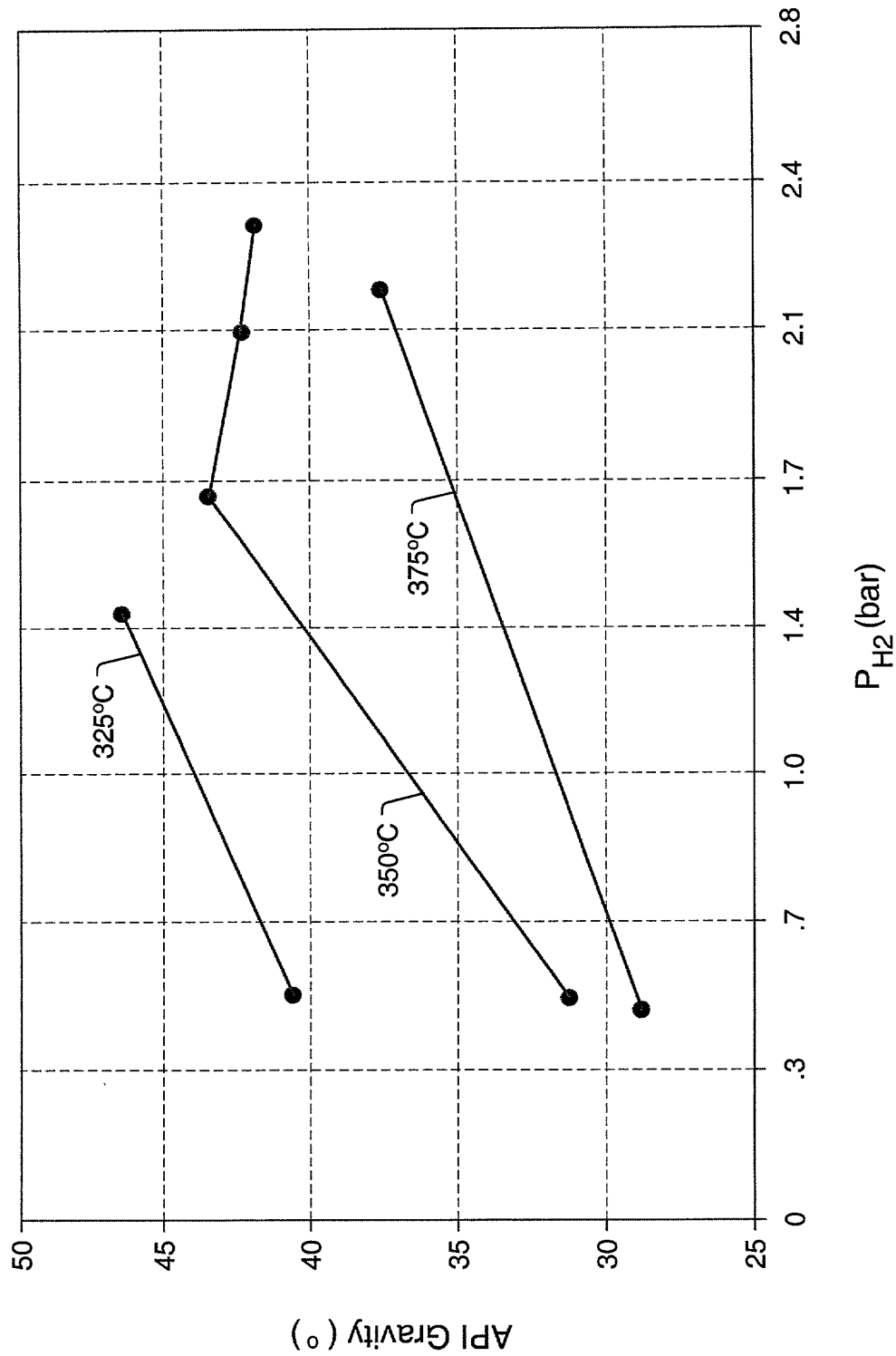


FIG. 98

FOH240" 000T4860

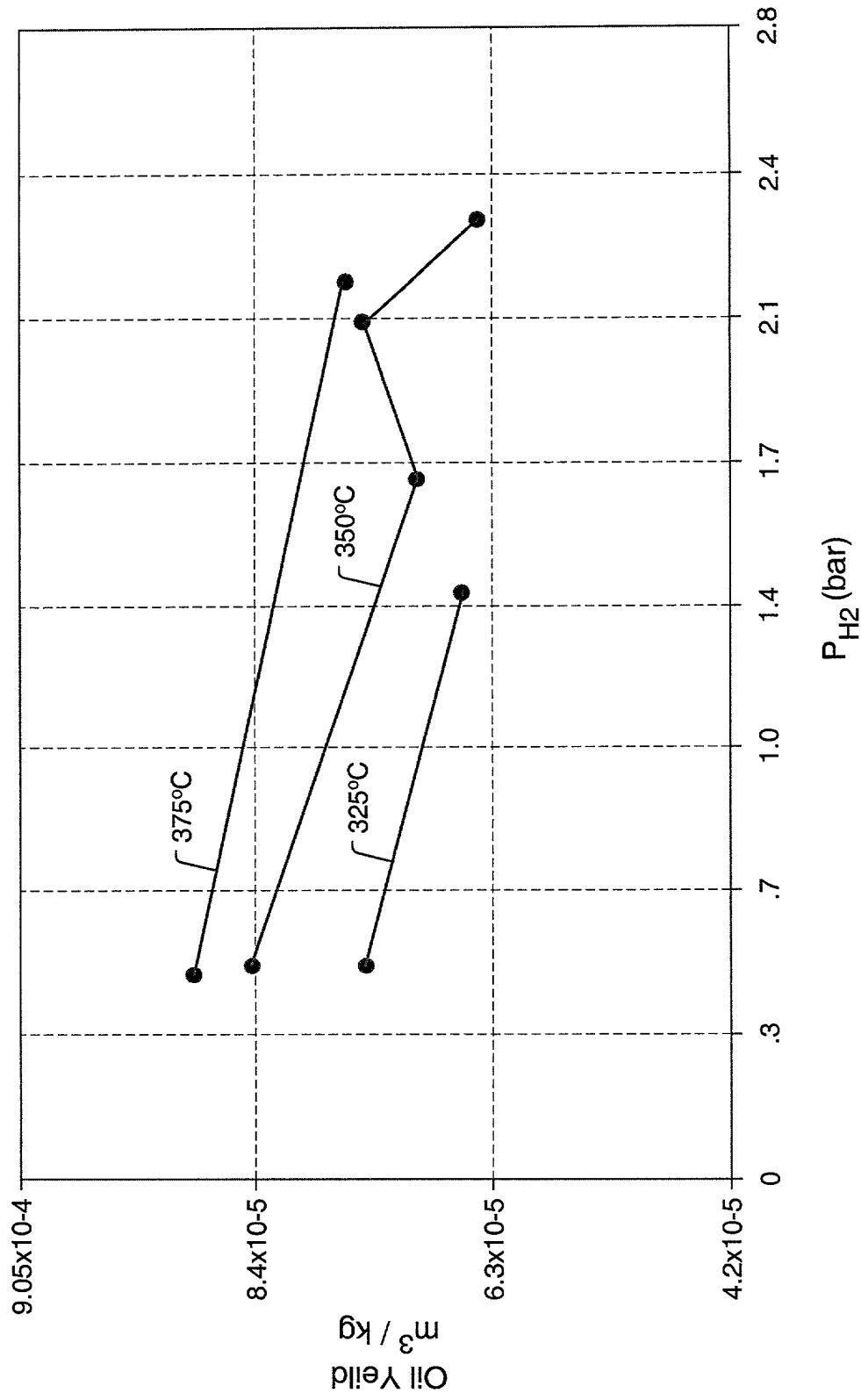


FIG. 99

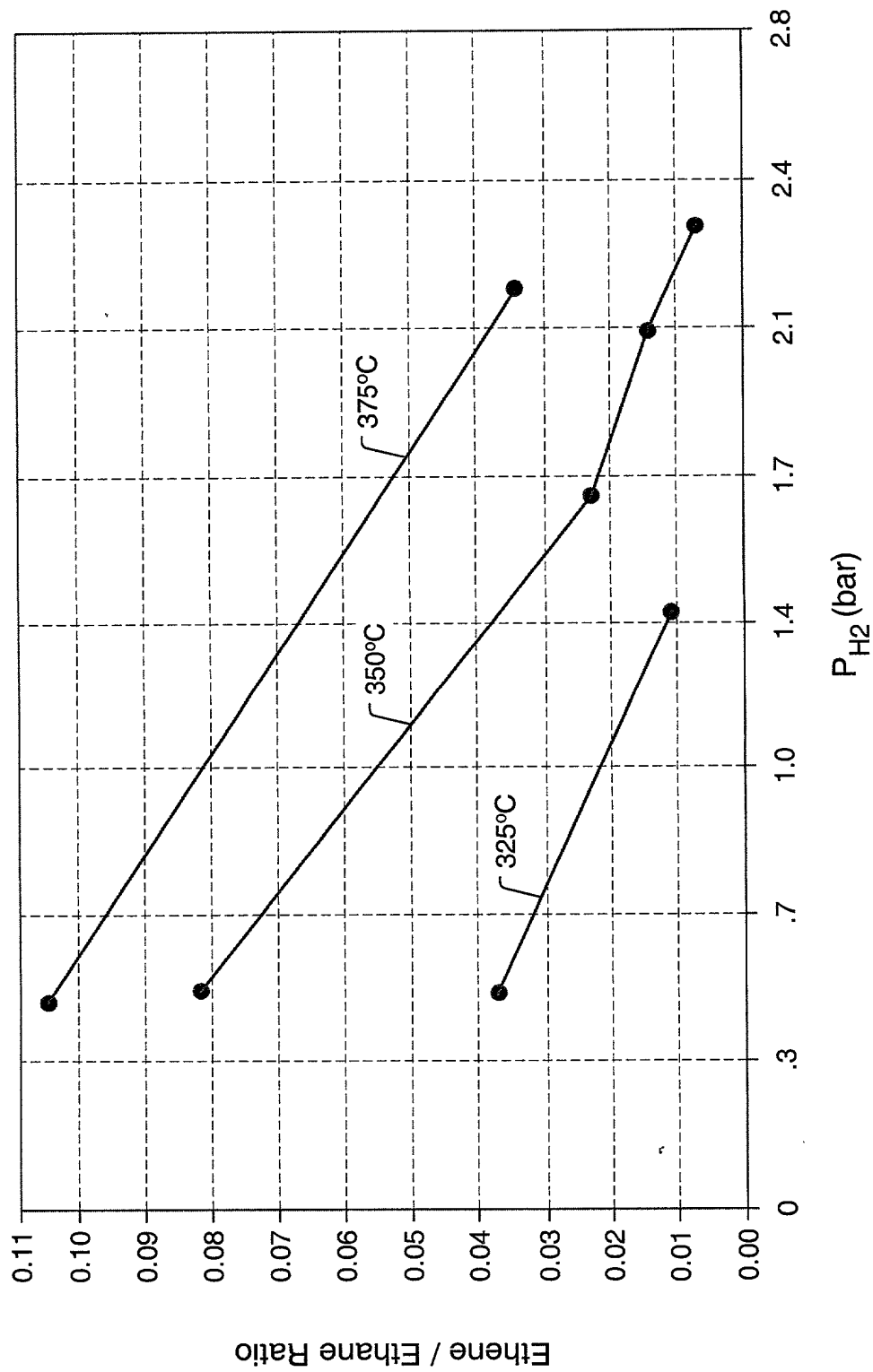


FIG. 100

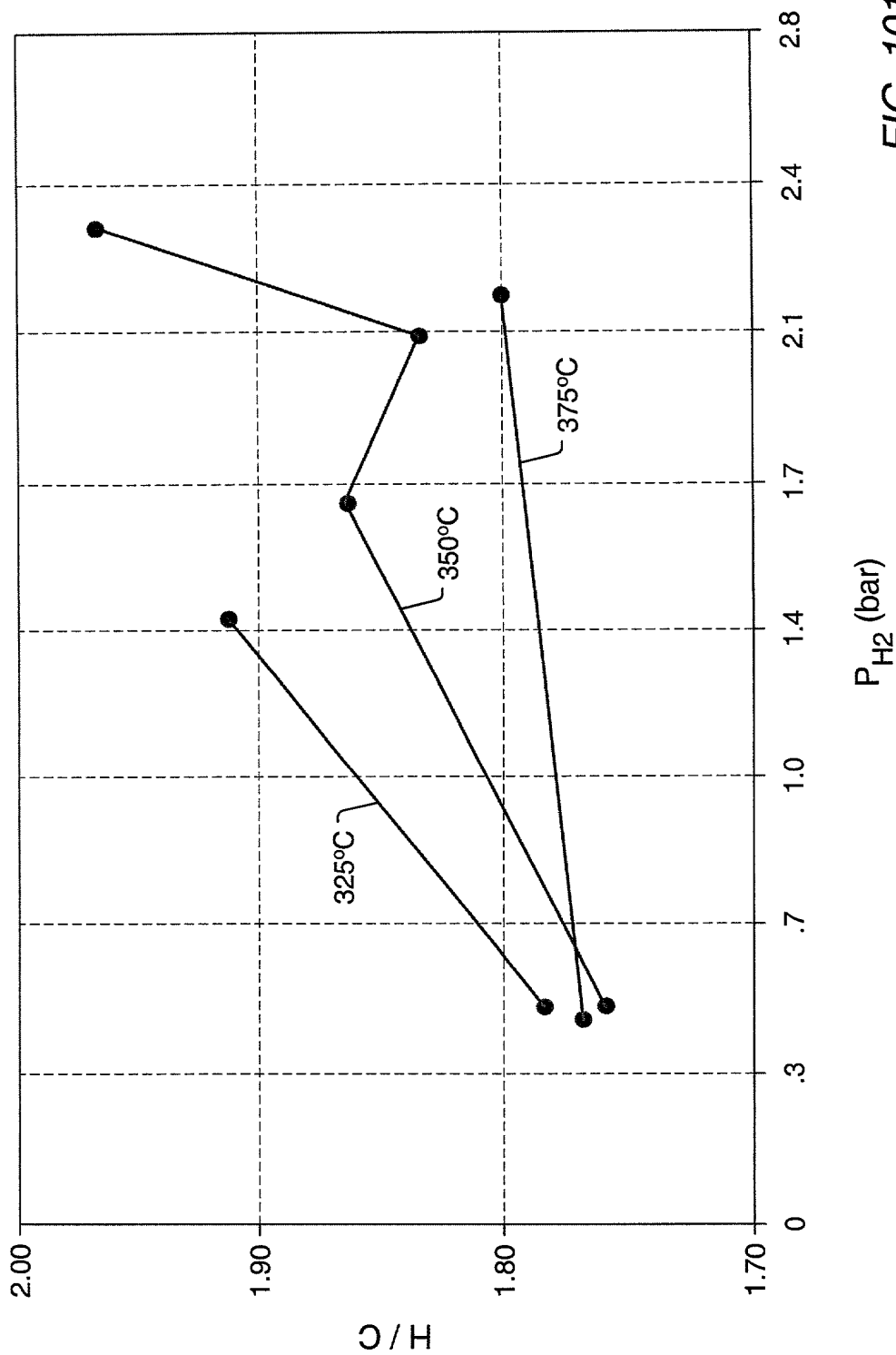


FIG. 101

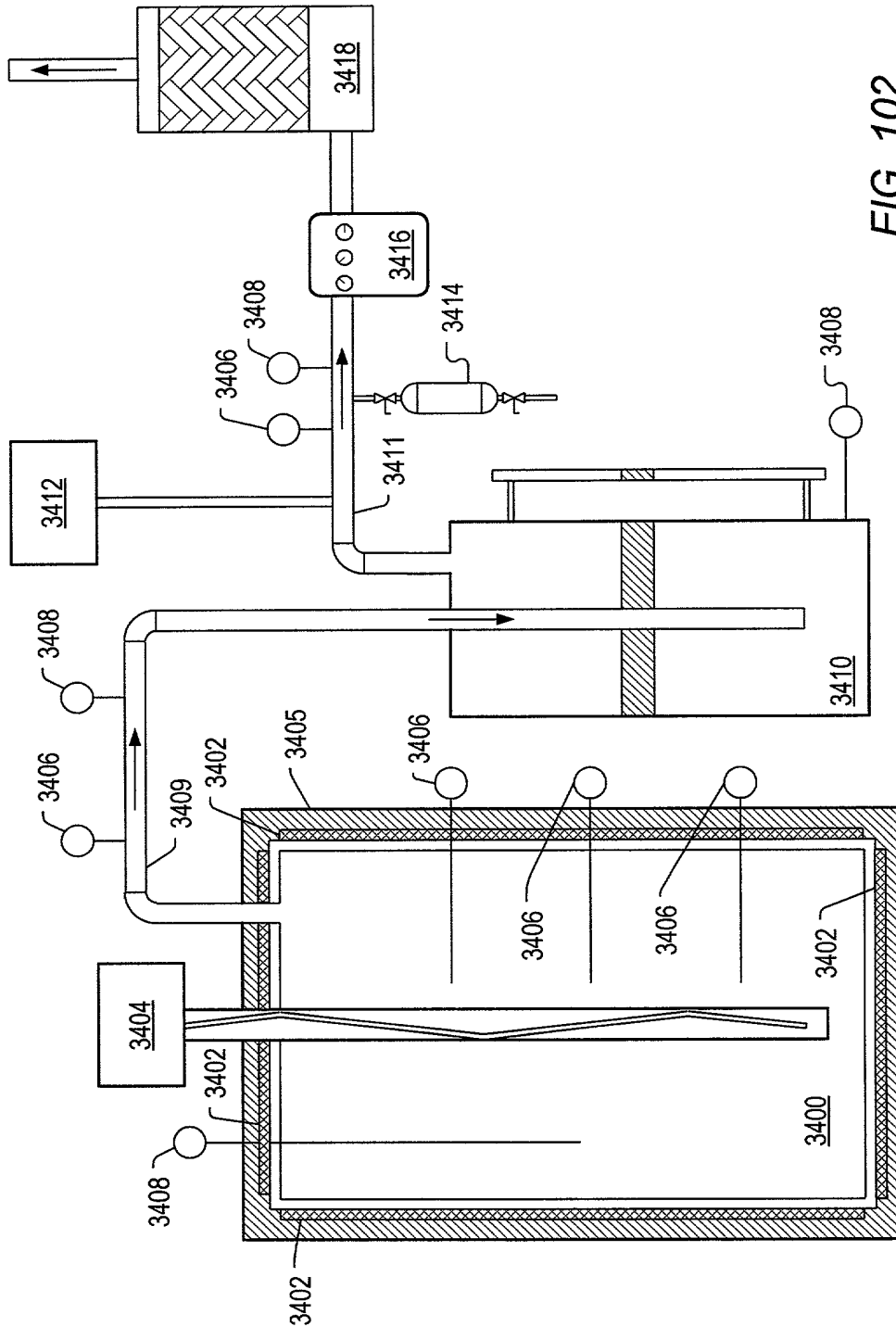


FIG. 102

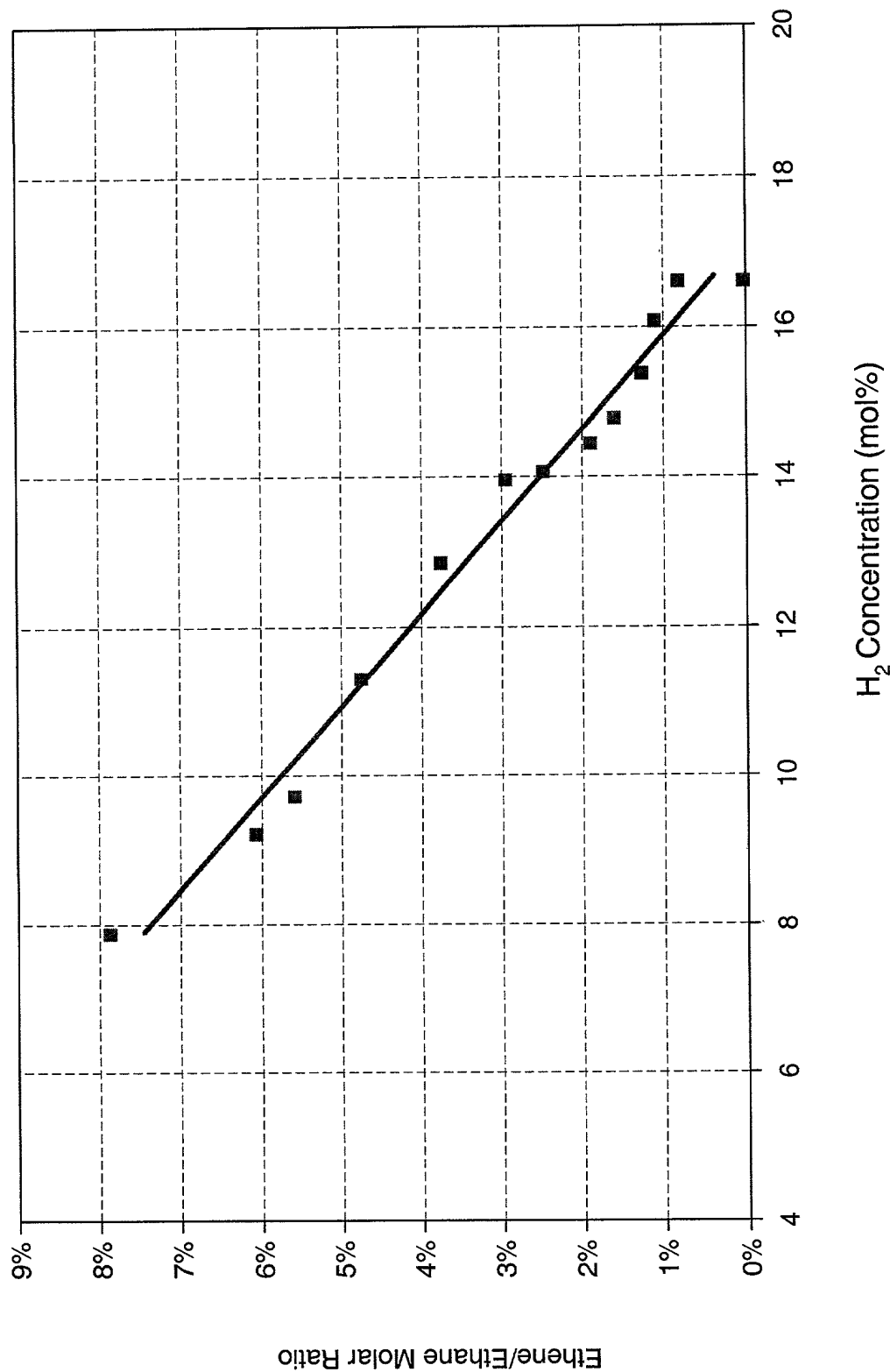


FIG. 103

The diagram consists of two concentric circles. The outer circle has five squares positioned at its vertices. The inner circle has five triangles positioned at its vertices. In the center, there is a regular hexagon surrounded by five pentagons.

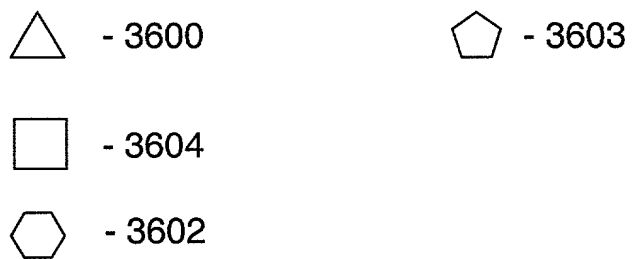


FIG. 104

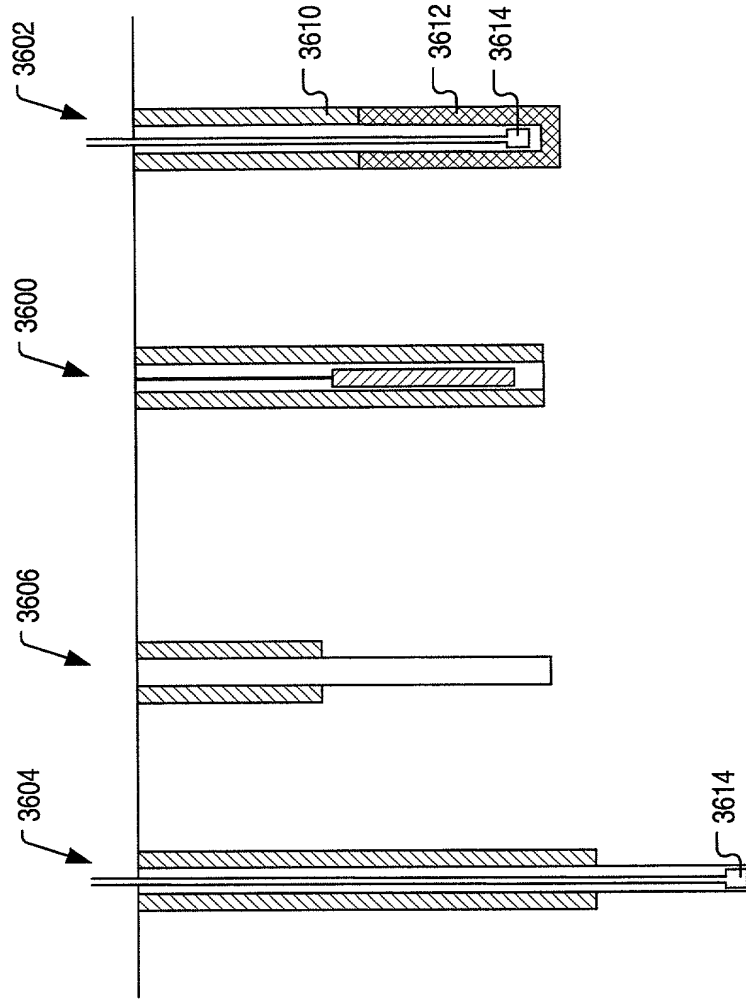


FIG. 105

T04240" 000T4860

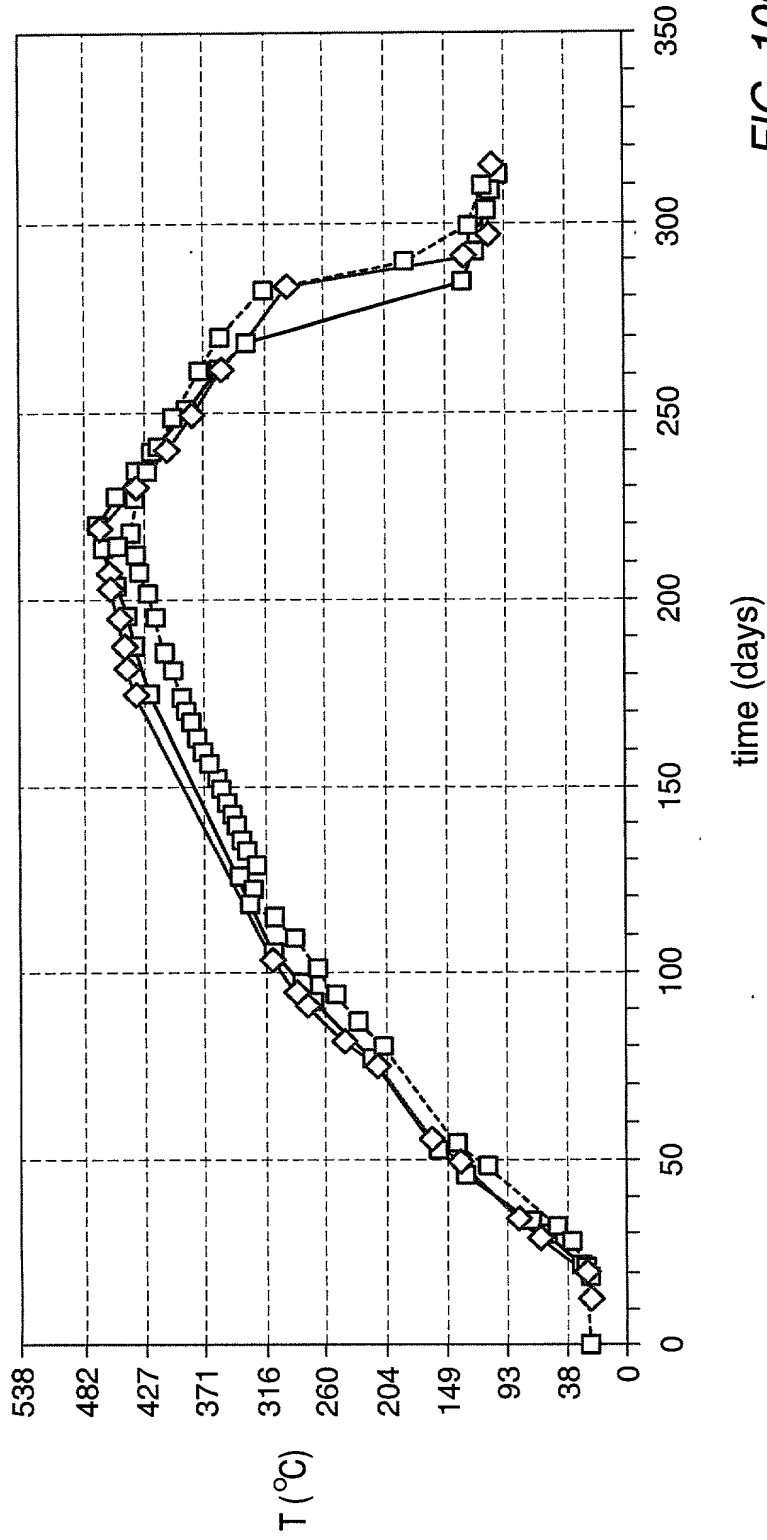


FIG. 106

104240" 00074860

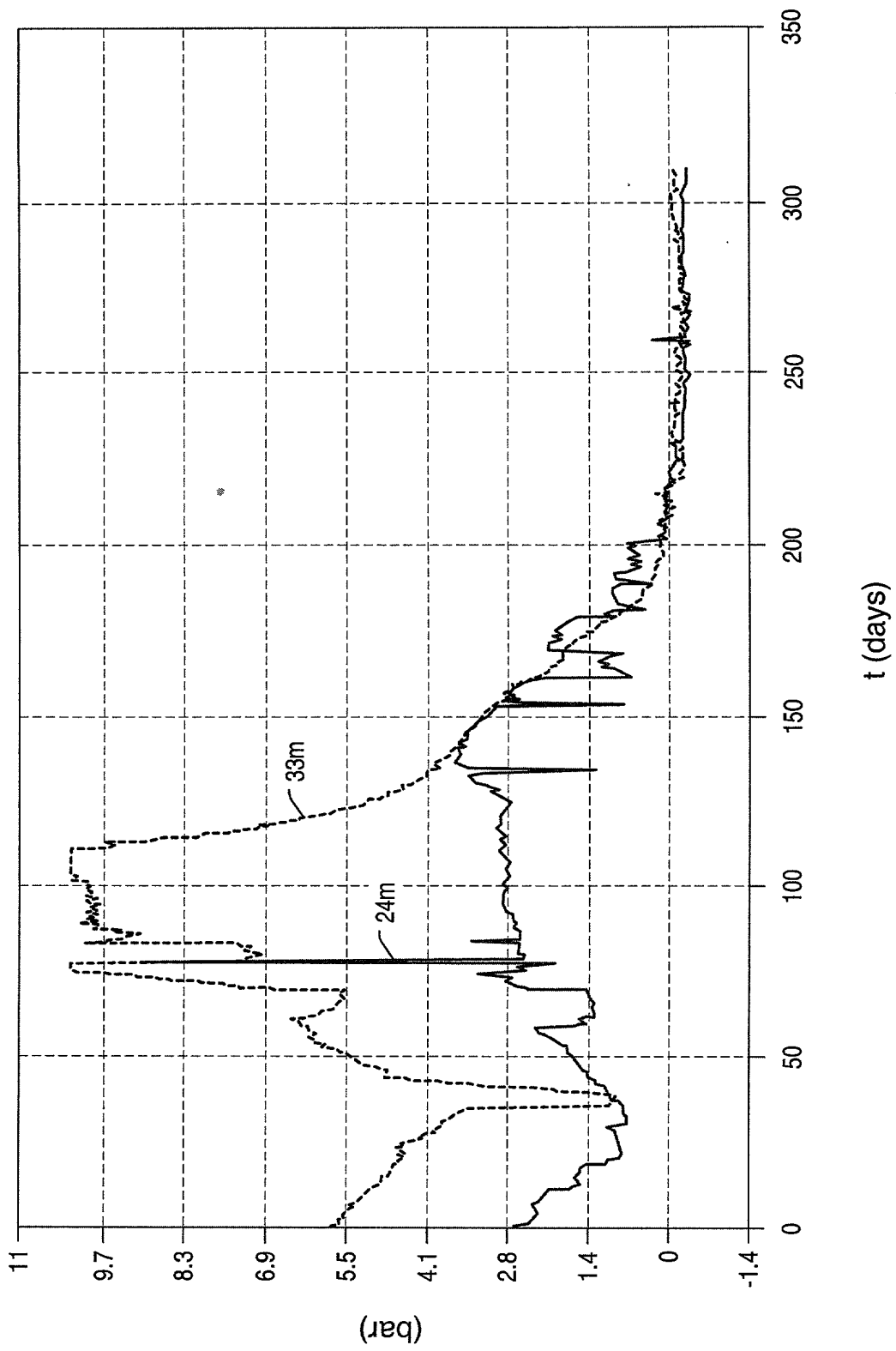


FIG. 107

T04240" 00074860

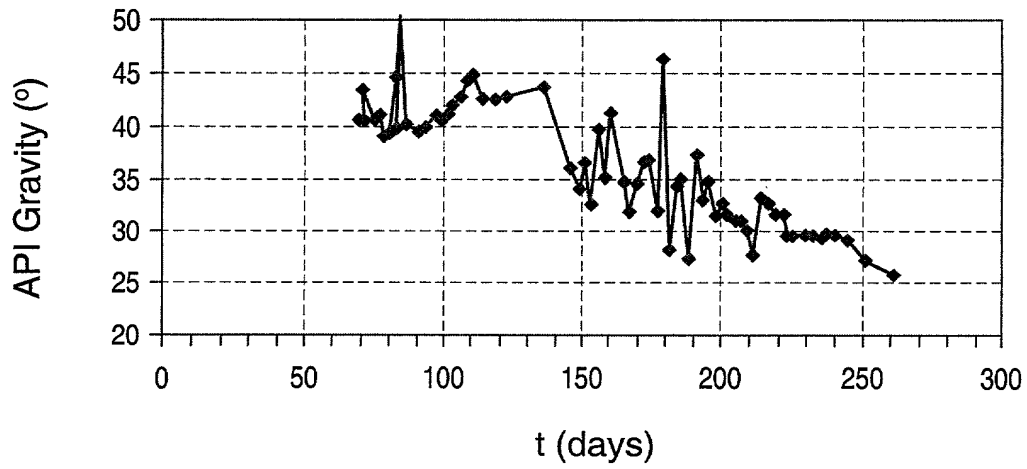


FIG. 108

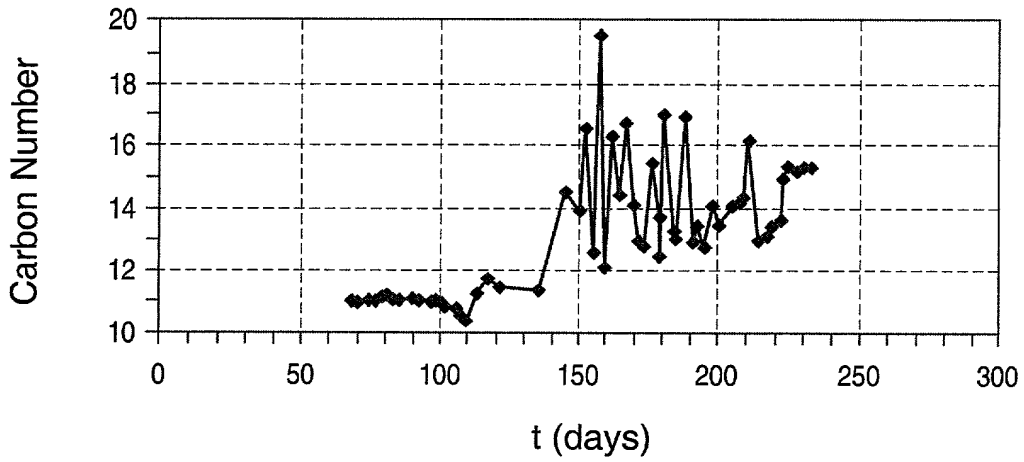


FIG. 109

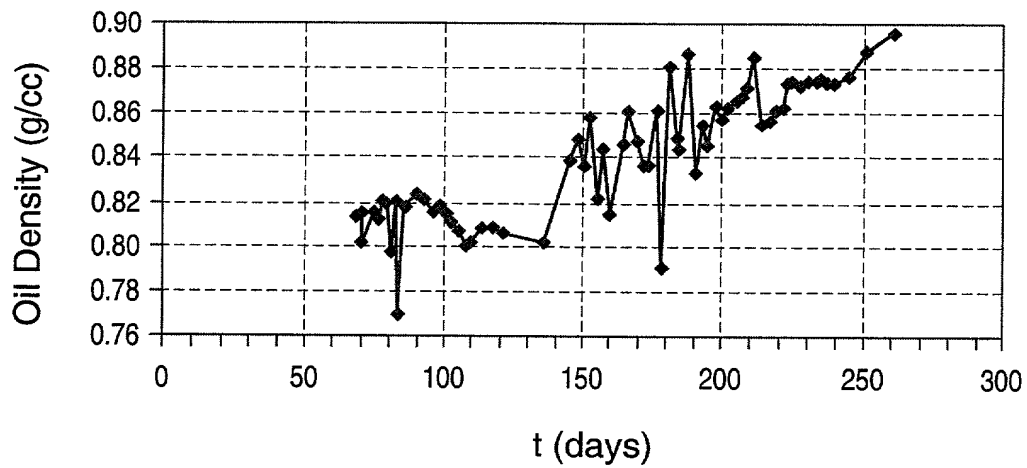


FIG. 110

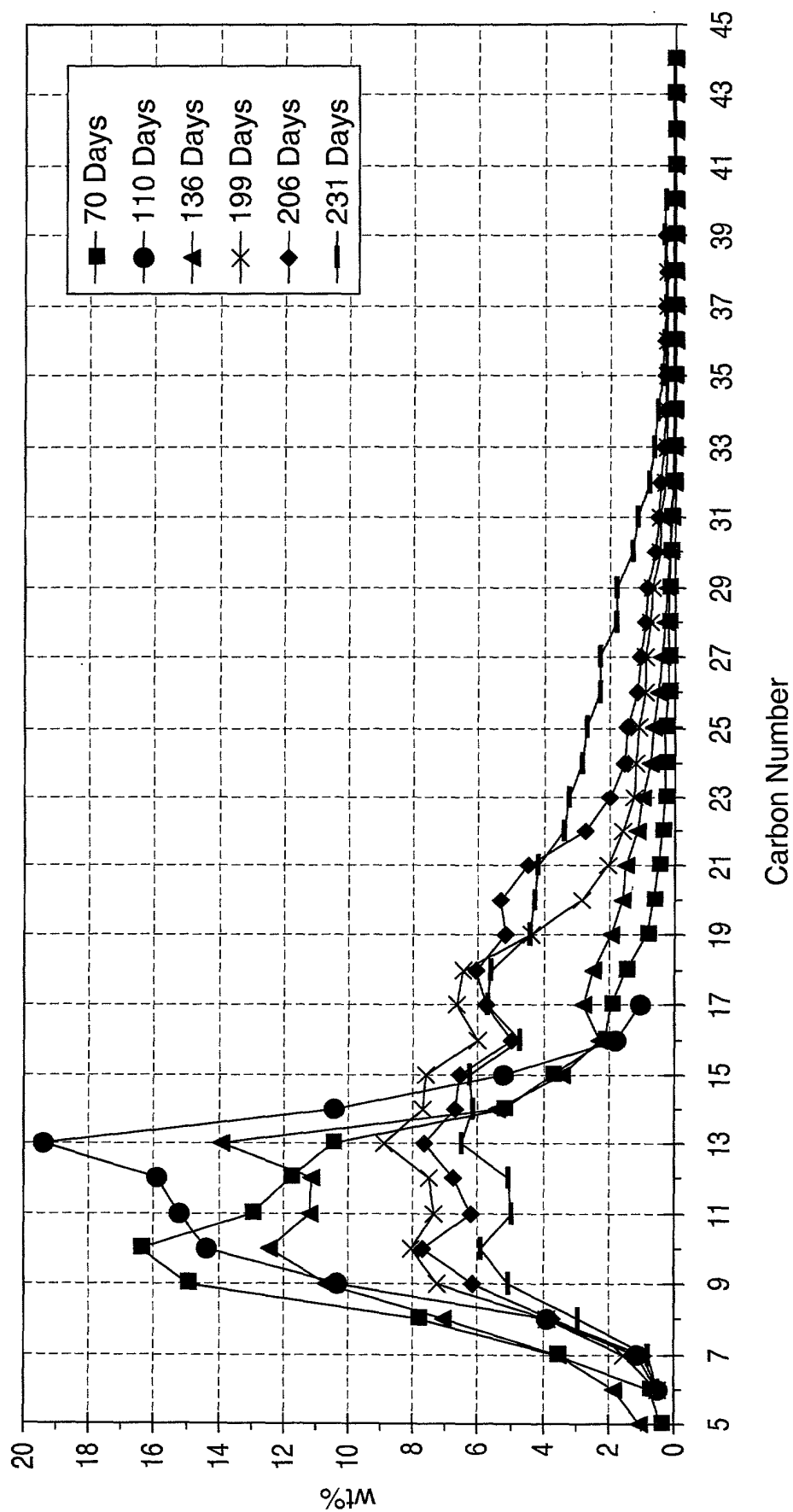


FIG. 111

FOH240" 000T4860

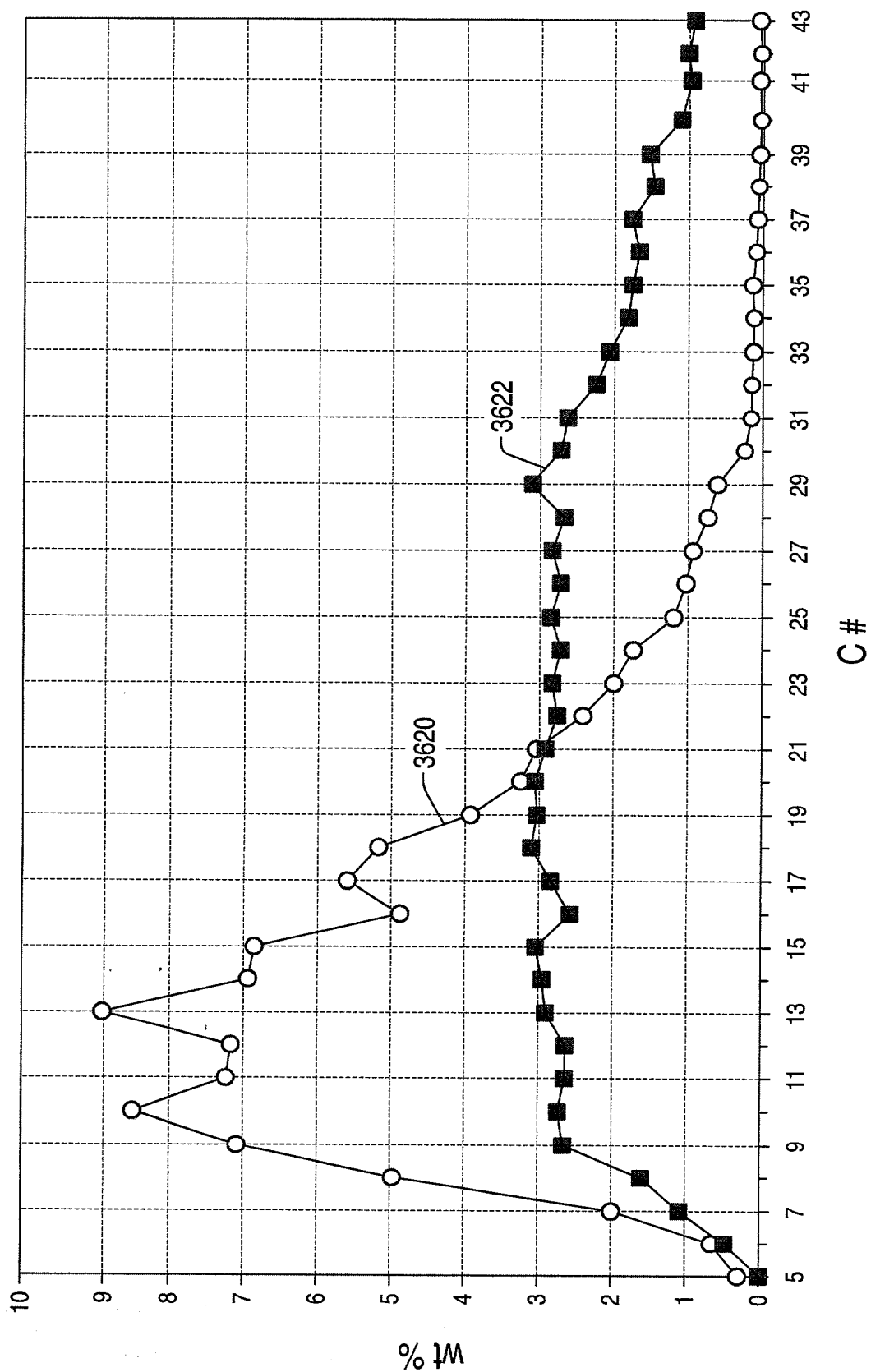


FIG. 112

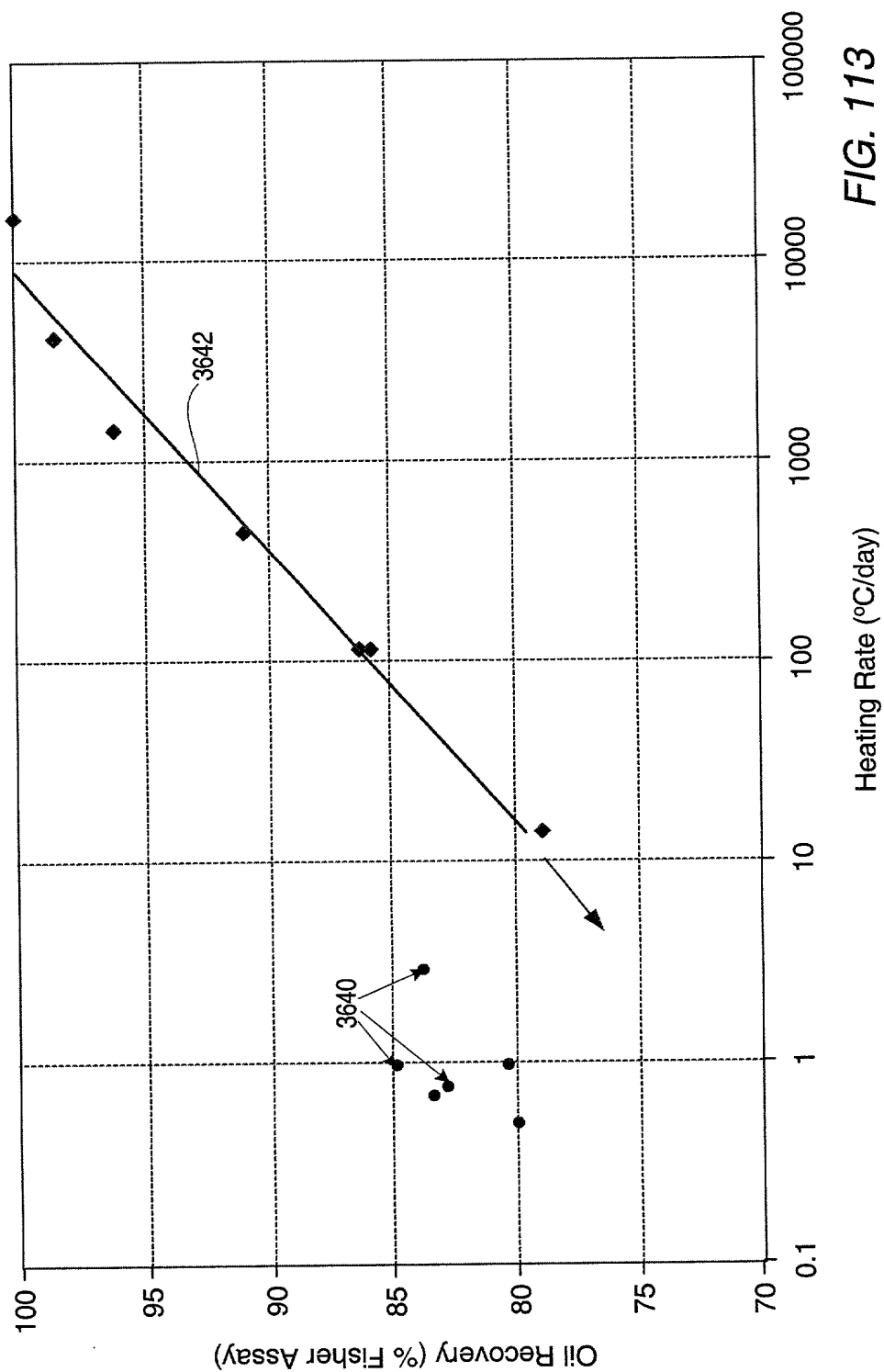


FIG. 113

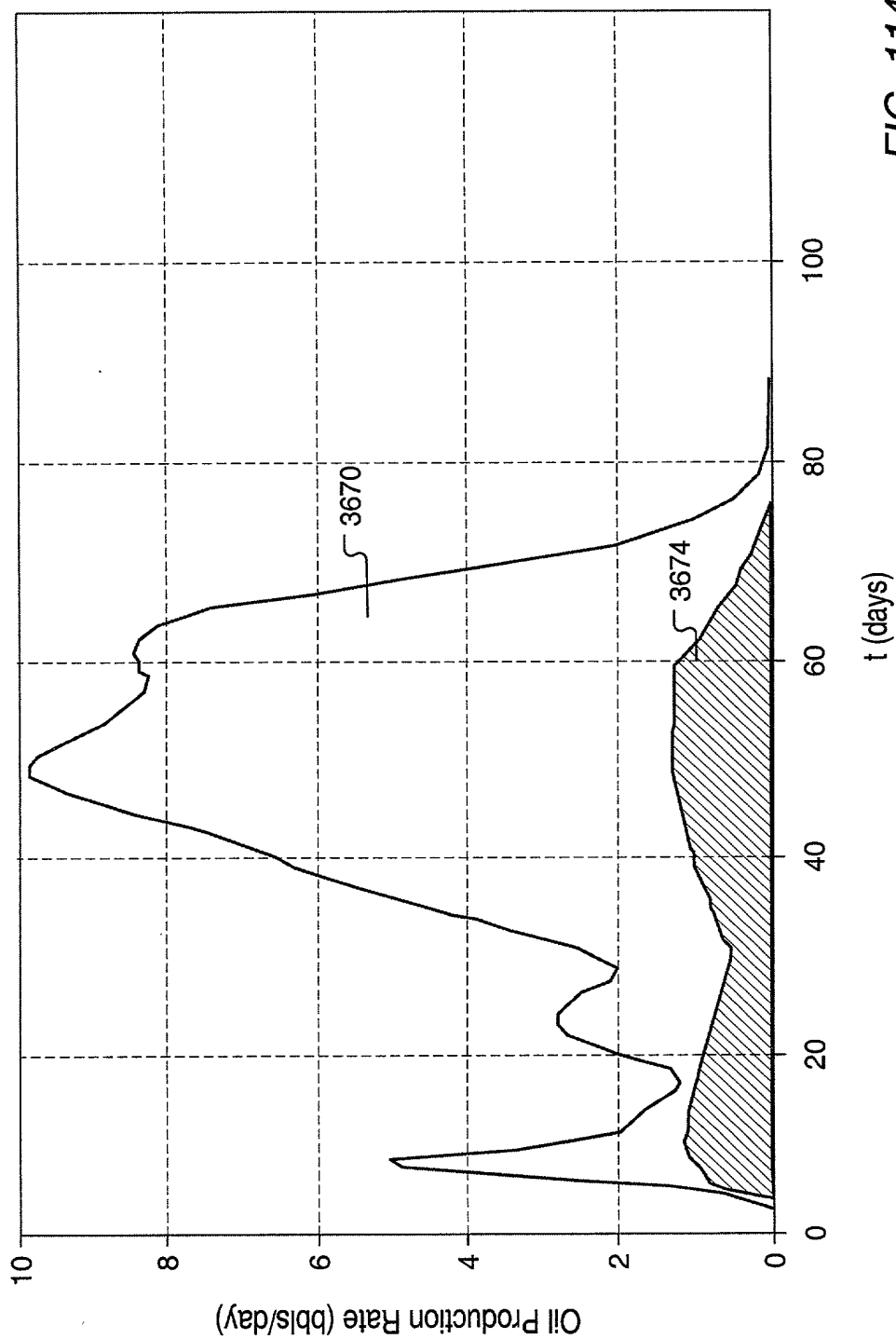


FIG. 114

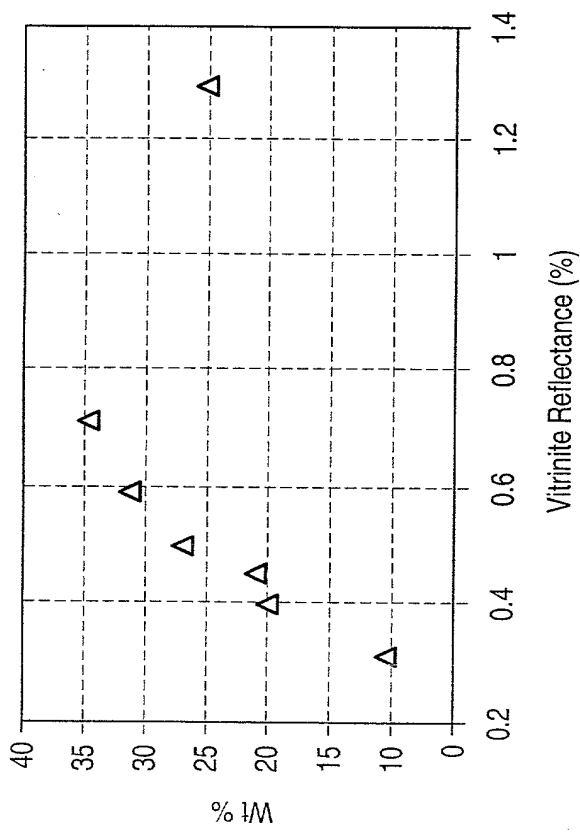


FIG. 115

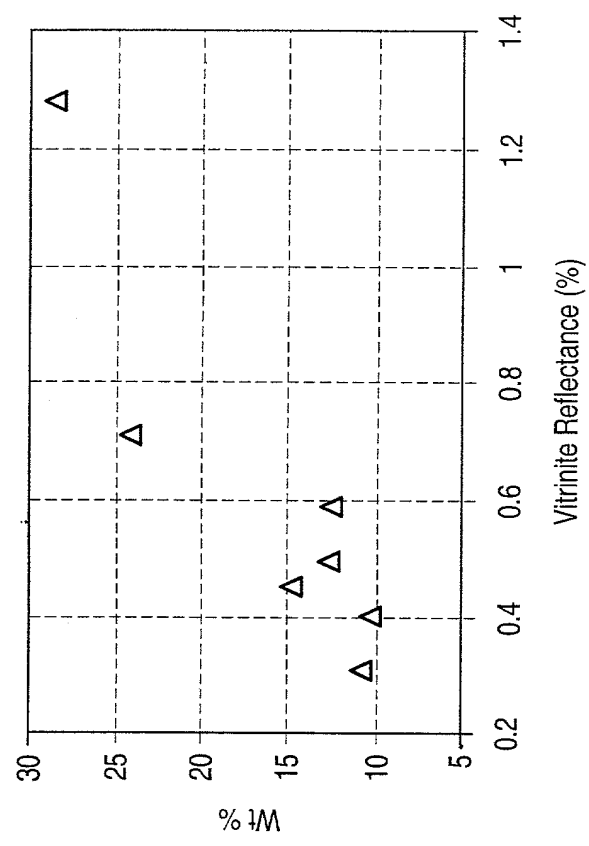


FIG. 116

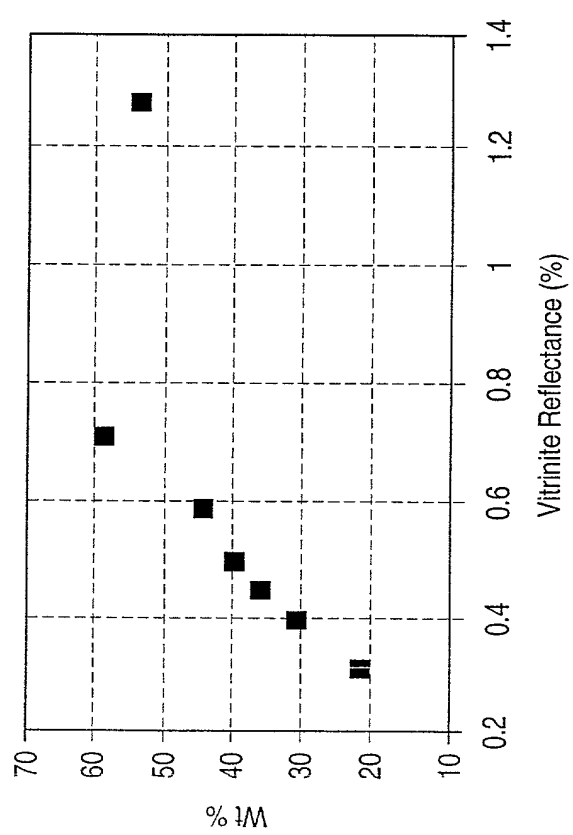


FIG. 117

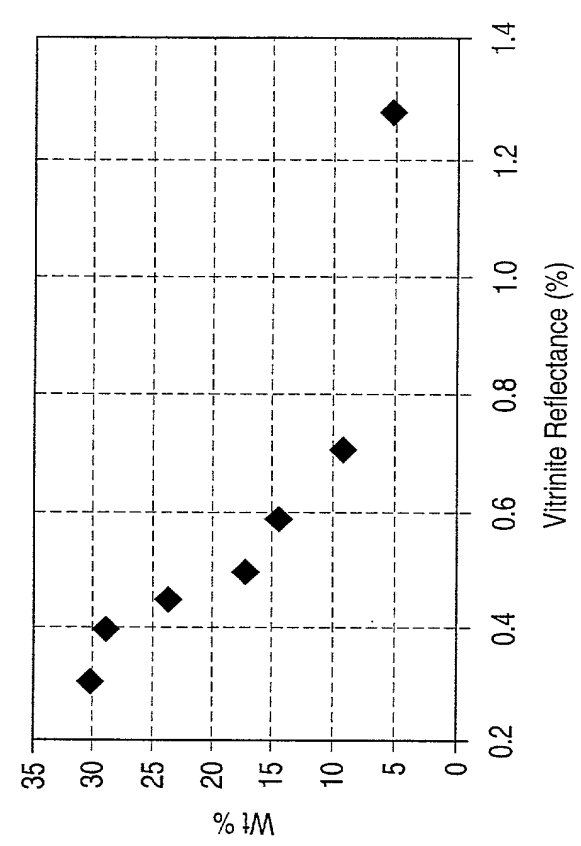


FIG. 118

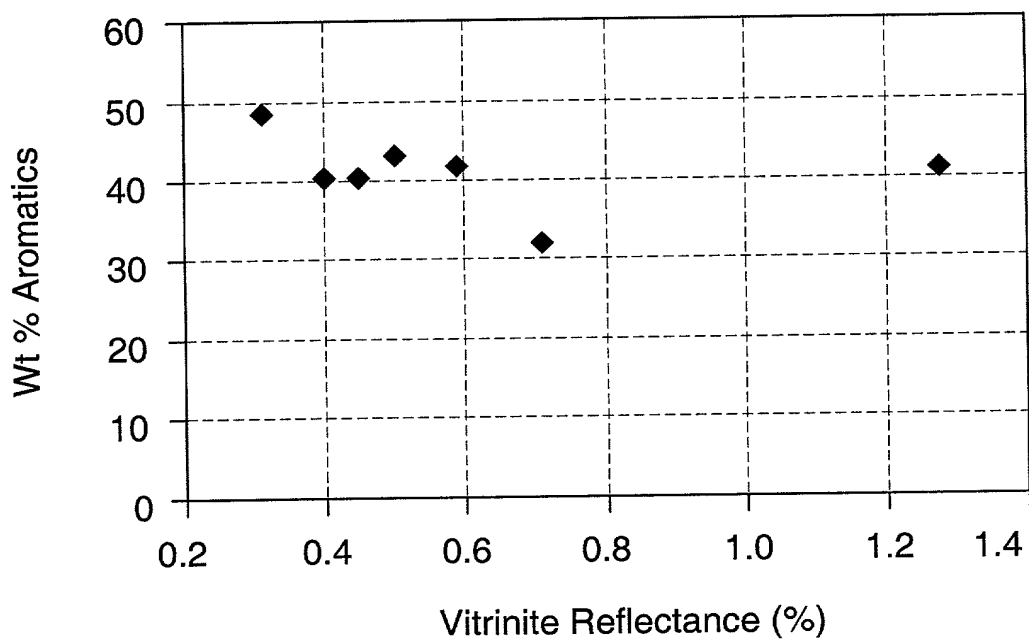


FIG. 119

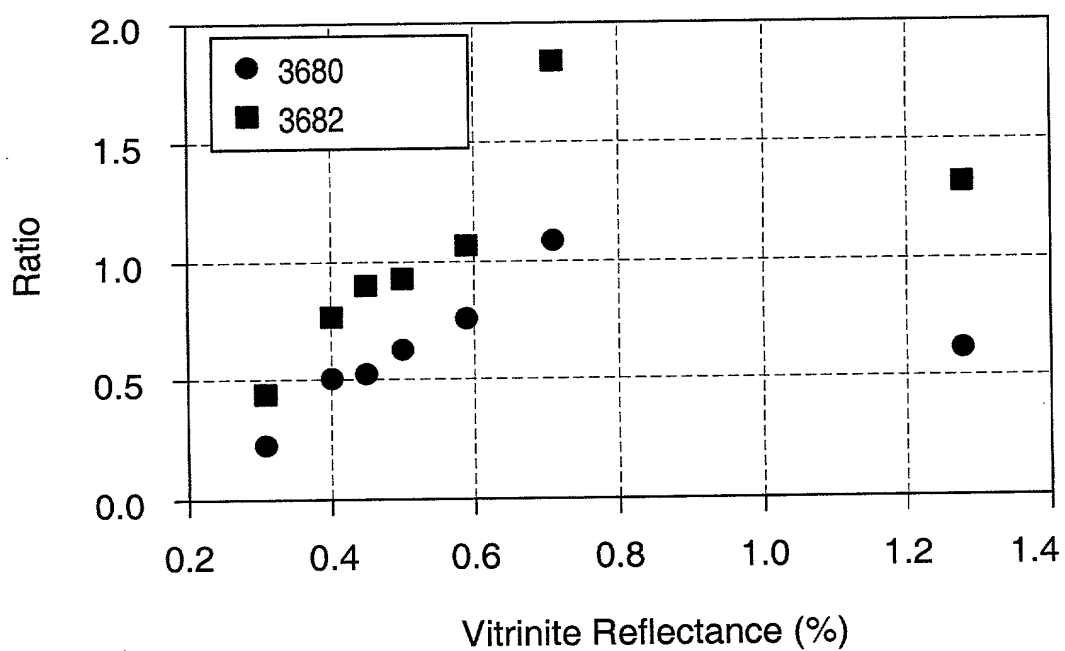
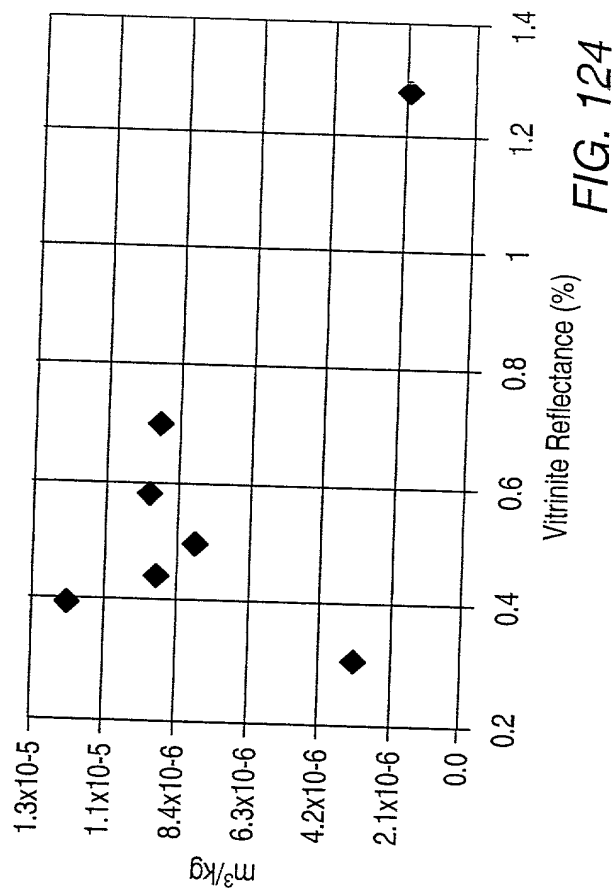
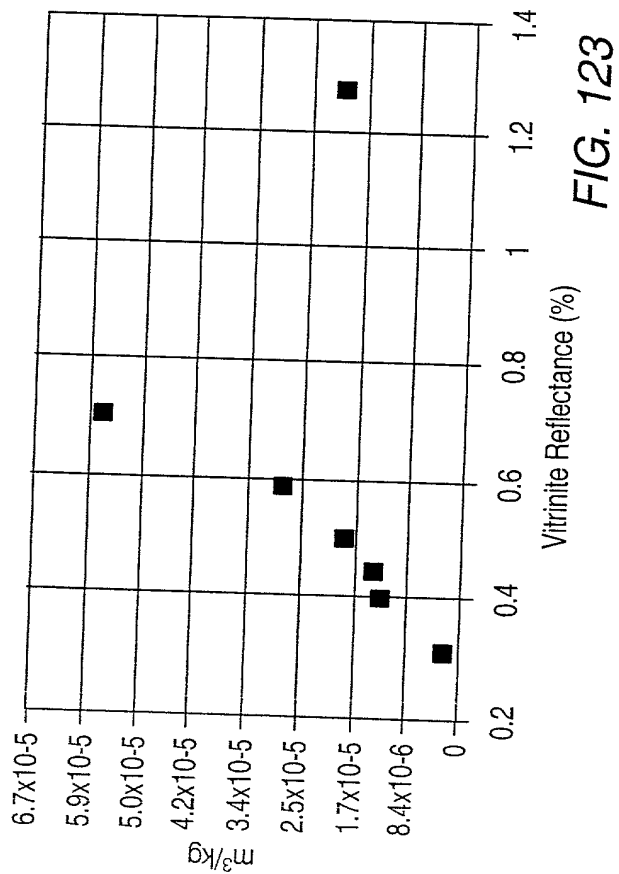
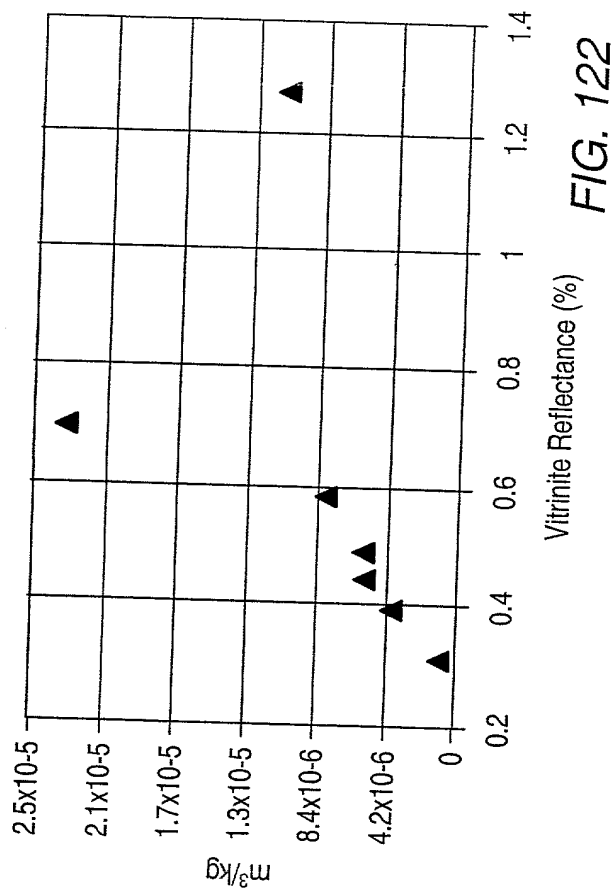
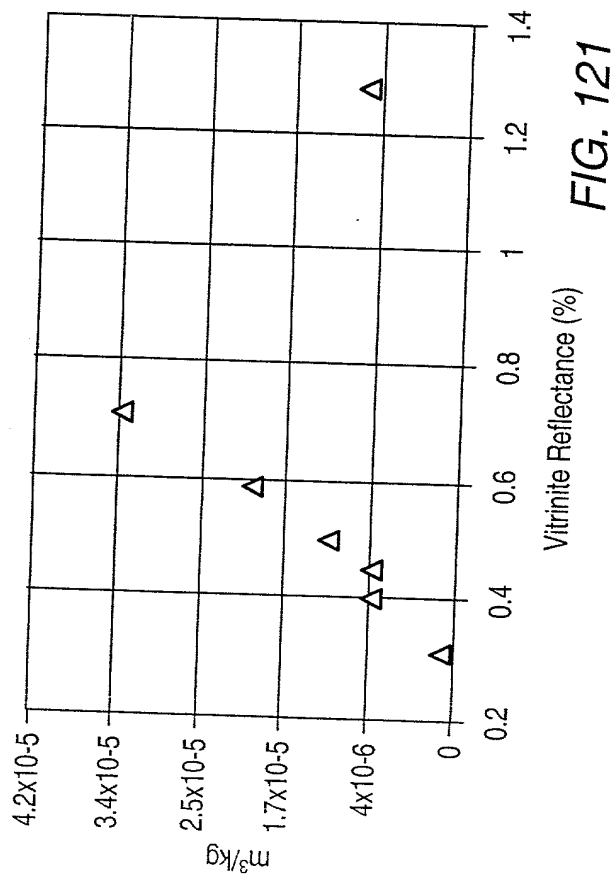


FIG. 120



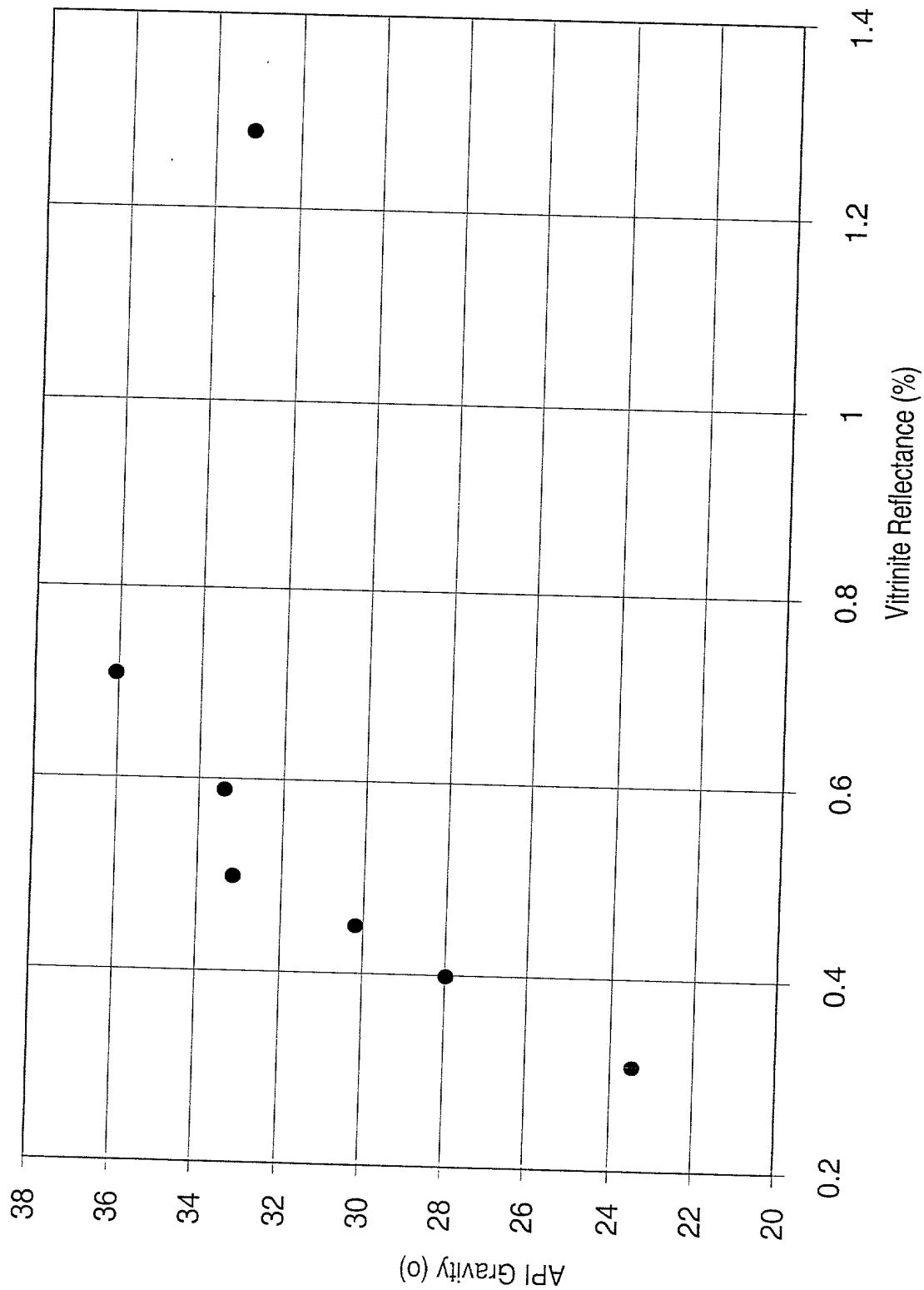


FIG. 125

A scatter plot showing the relationship between the Weighted Average of Proximate Analysis (daf coal) on the x-axis and Oil Yield (gal/ton, daf coal) on the y-axis. The x-axis ranges from 0.2 to 1.4 with major ticks every 0.2 units. The y-axis ranges from 0 to 30 with major ticks every 5 units. There are 10 data points plotted as black diamonds. The data points are approximately as follows:

Weighted Average of Proximate Analysis (daf coal)	Oil Yield (gal/ton, daf coal)
0.3	2
0.4	10
0.45	8
0.5	10
0.6	15
0.7	22
0.8	10
1.2	7
1.3	2
1.4	10

FIG. 126

09441001 00014860

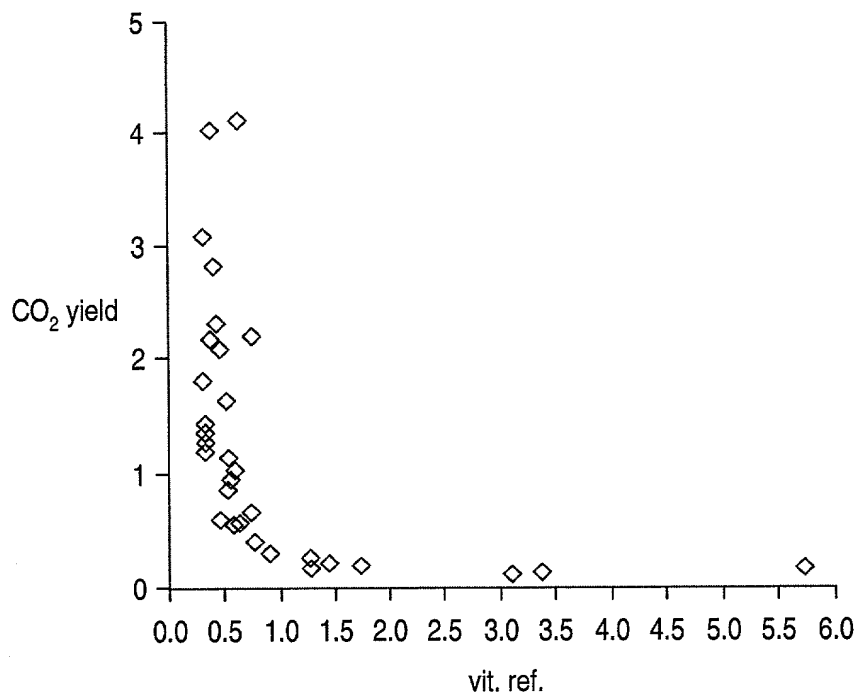


FIG. 127

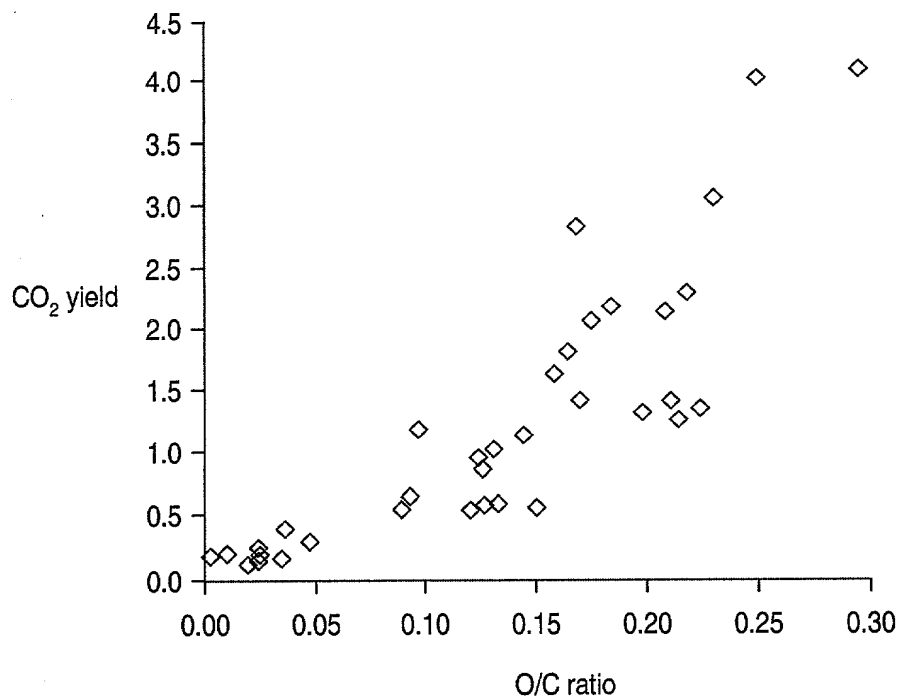


FIG. 128

104240"000T4250

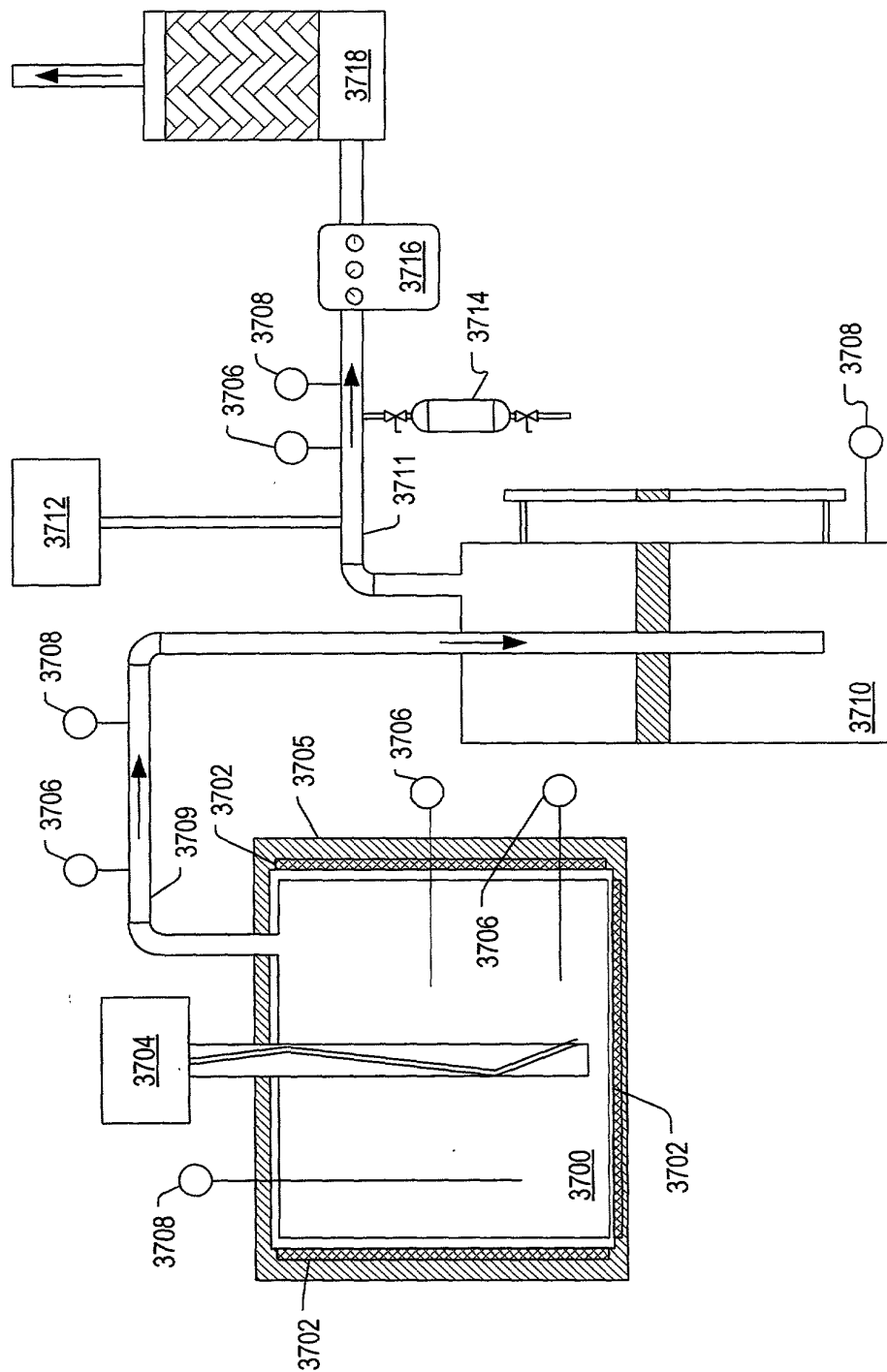


FIG. 129

T04240" 000T4360

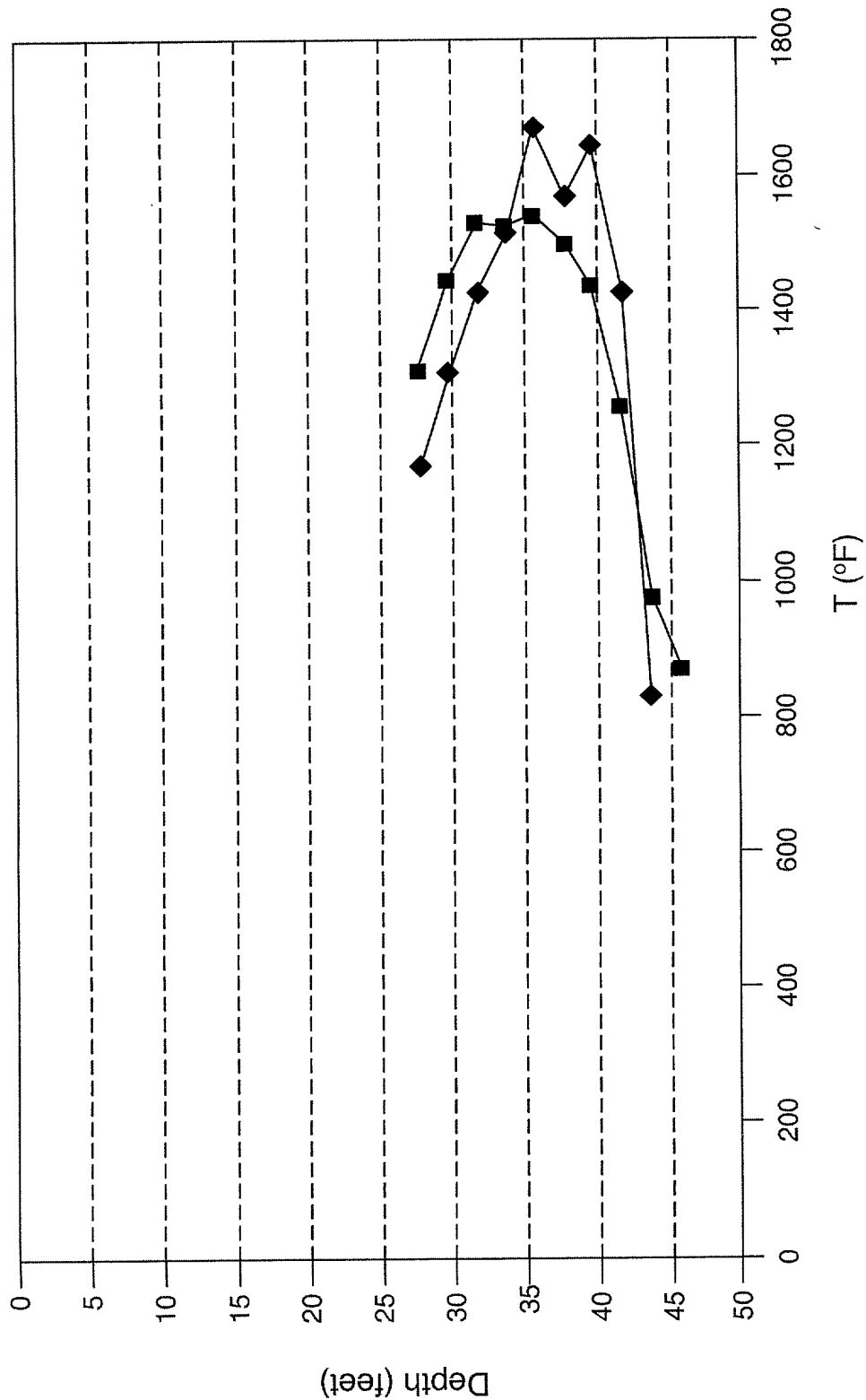


FIG. 130

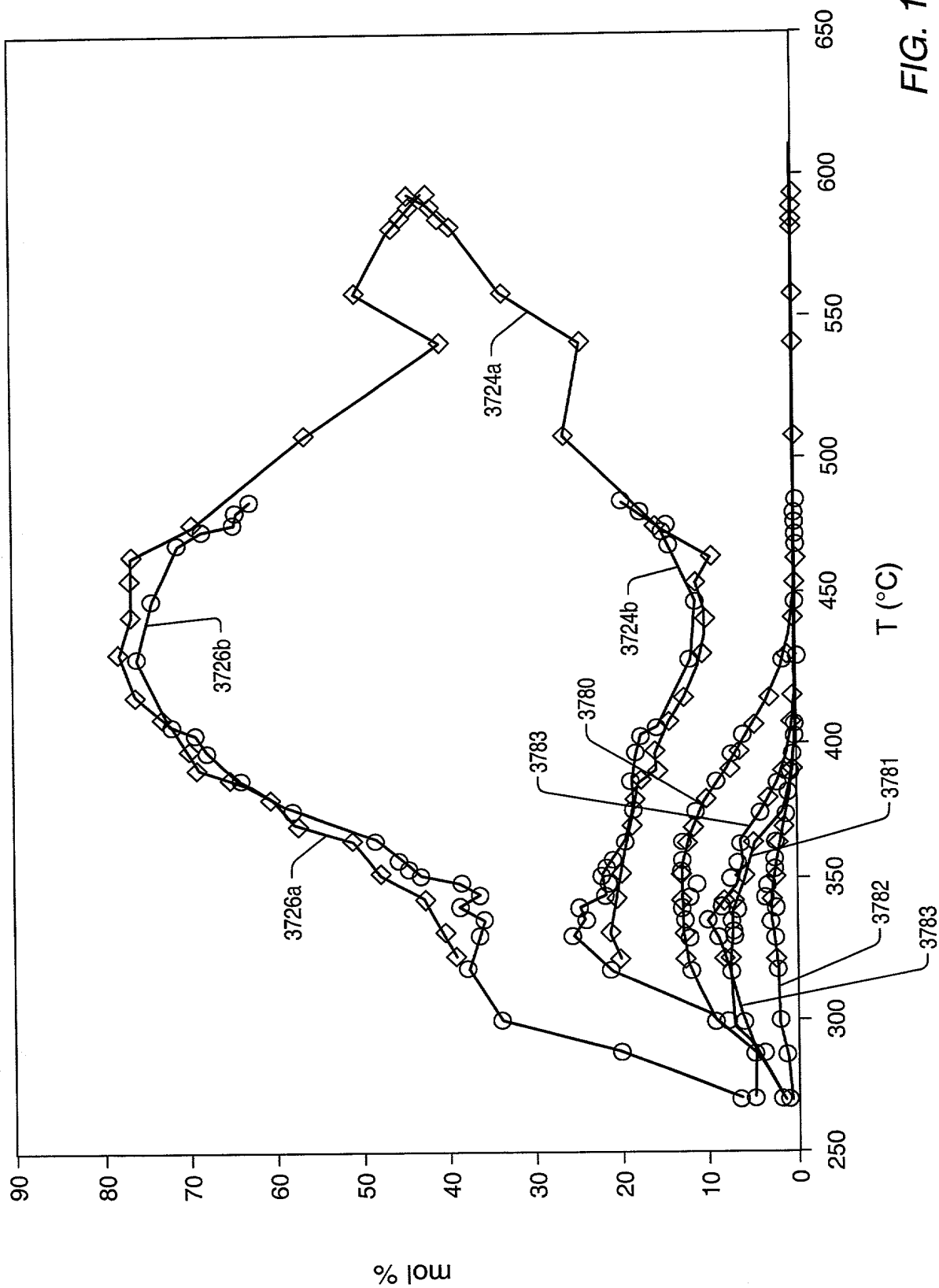


FIG. 131

T04240" 000F4860

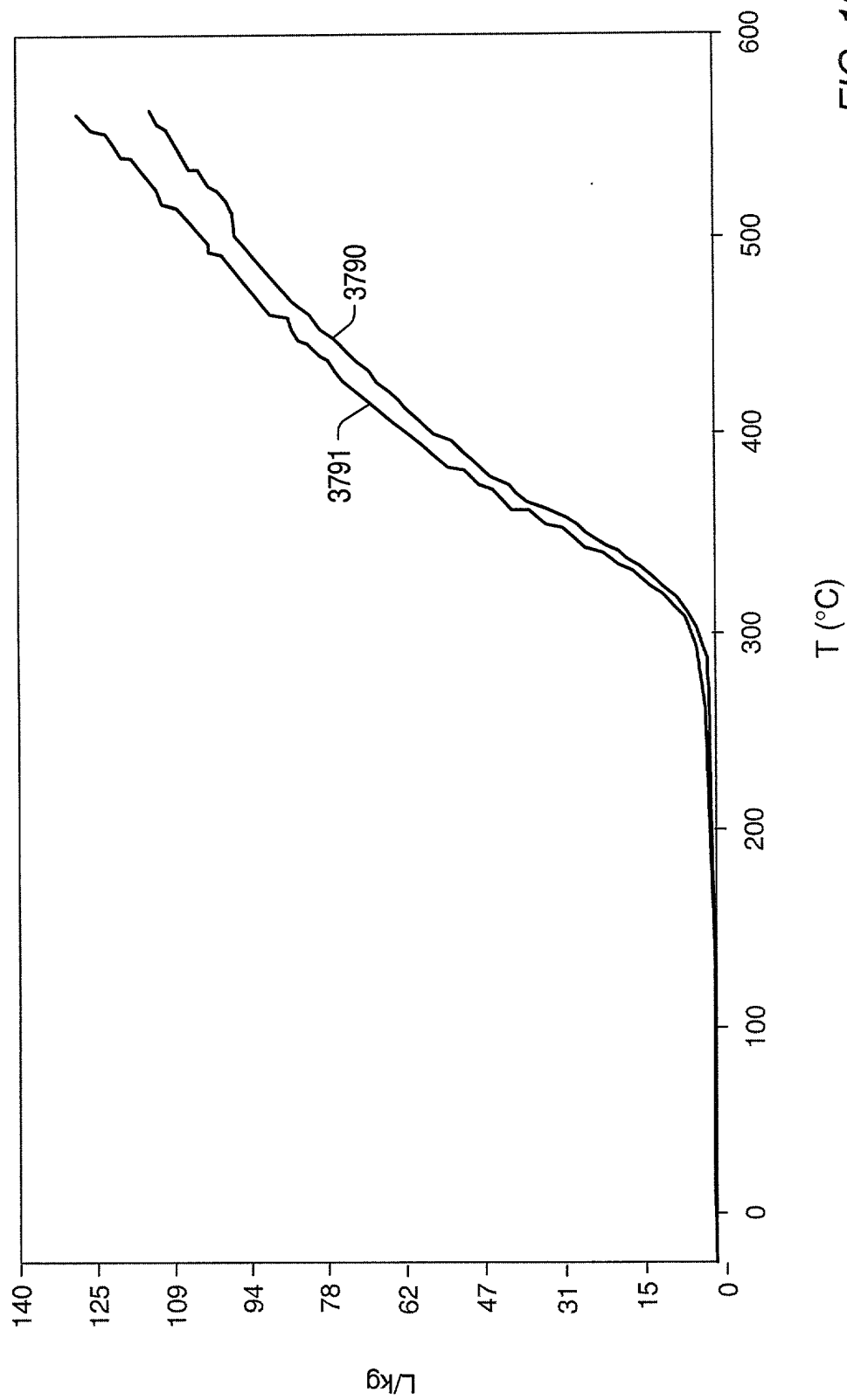


FIG. 132

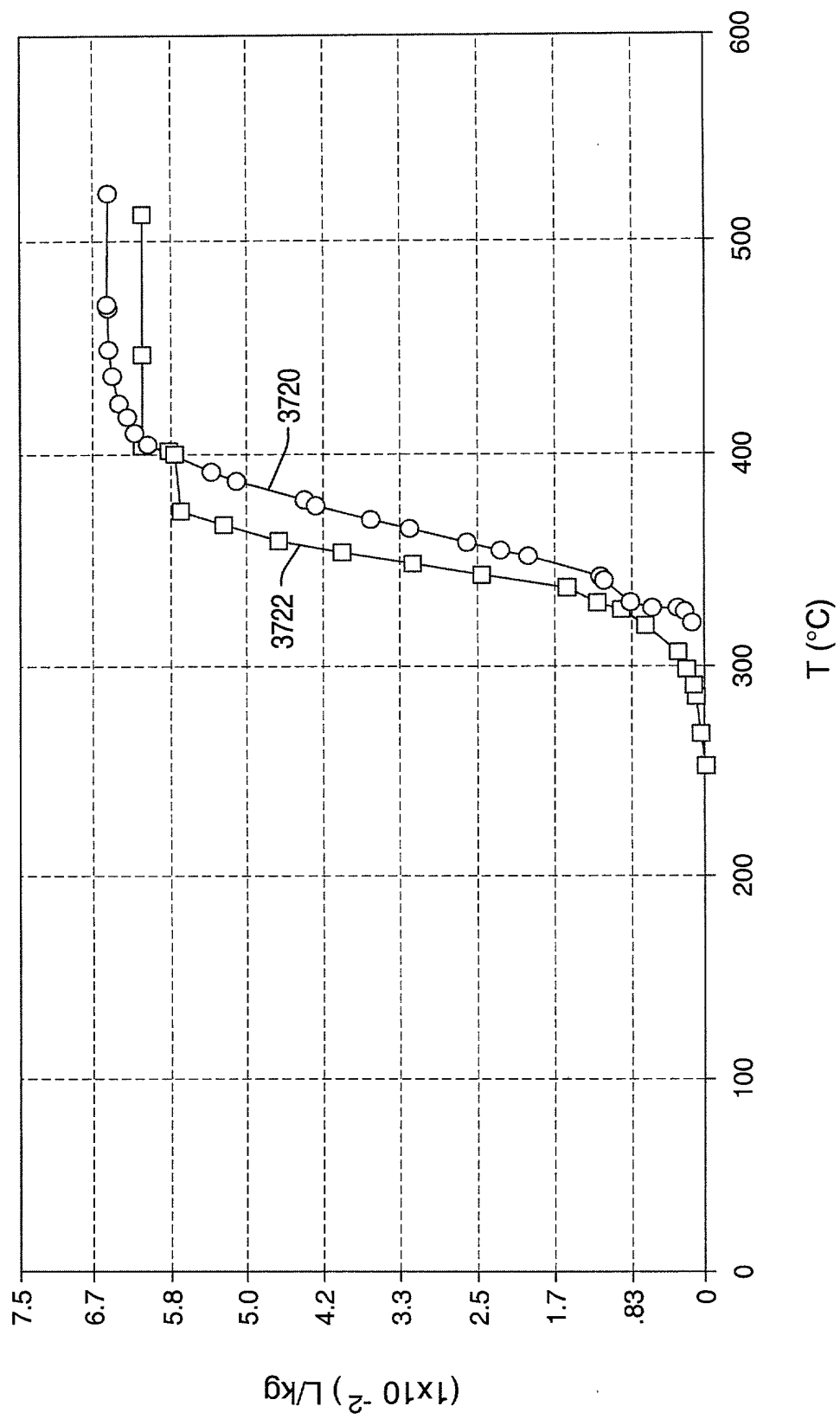


FIG. 133

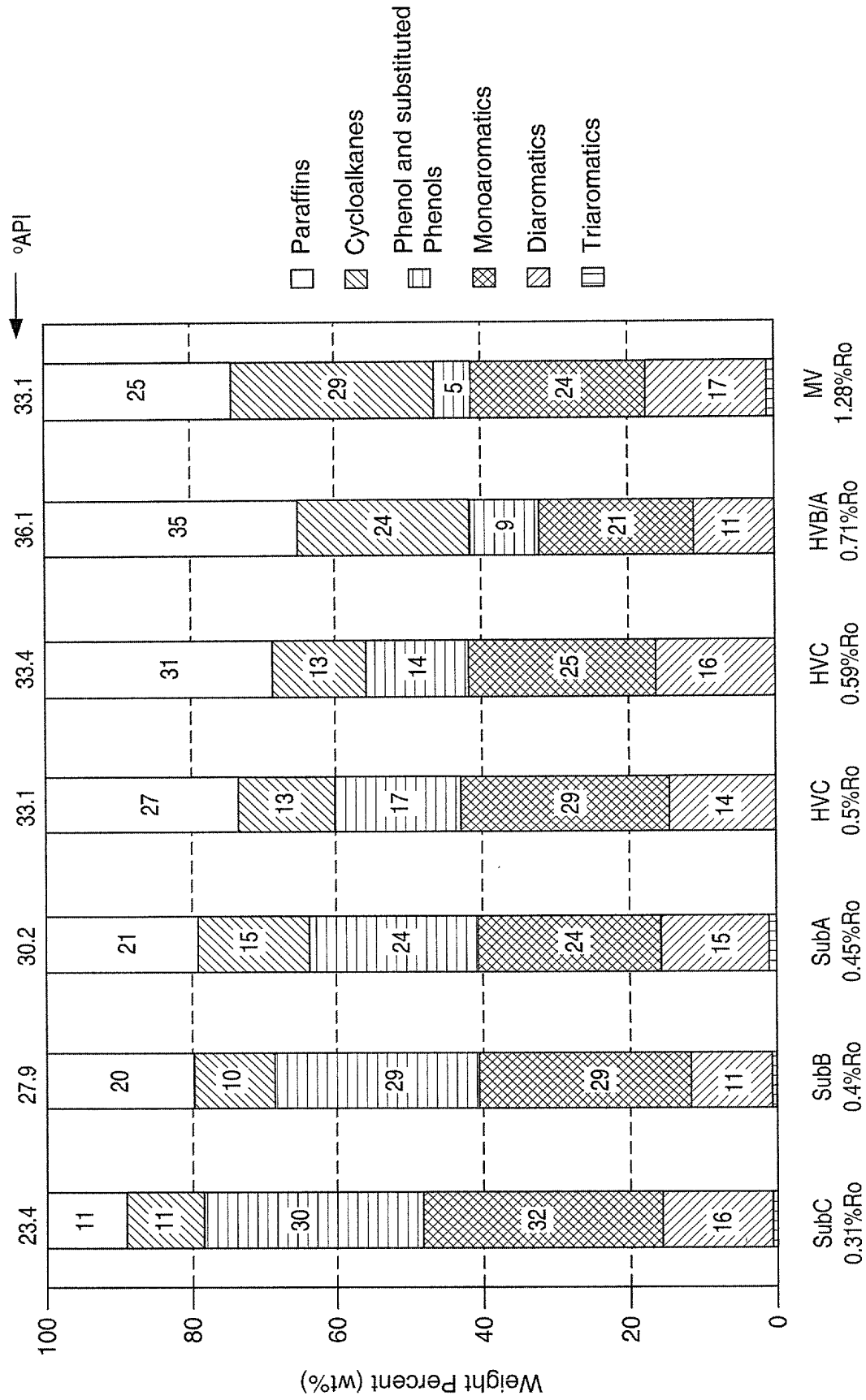


FIG. 134

FIG. 135

FOOTNOTES

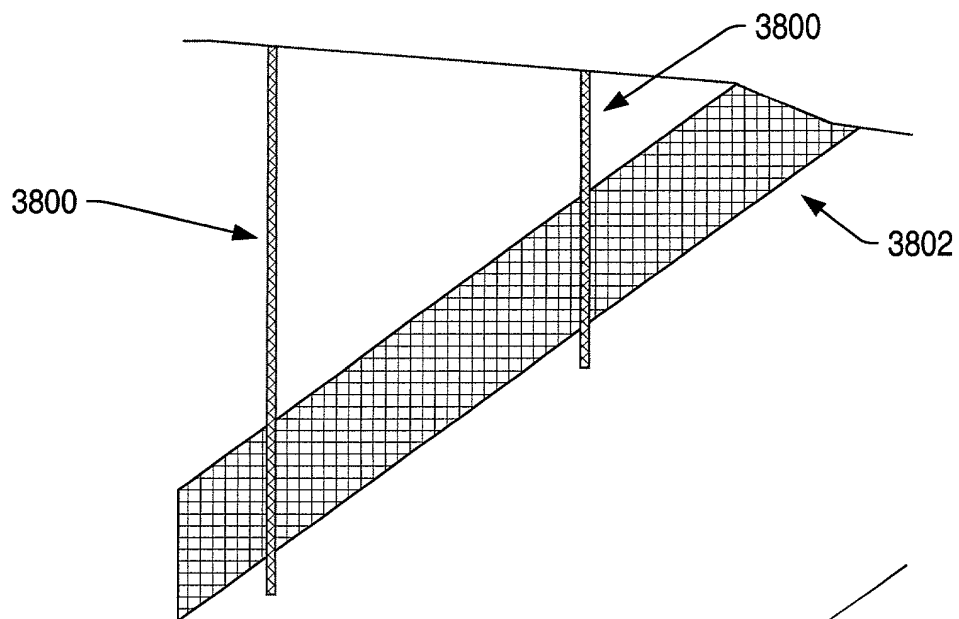


FIG. 136

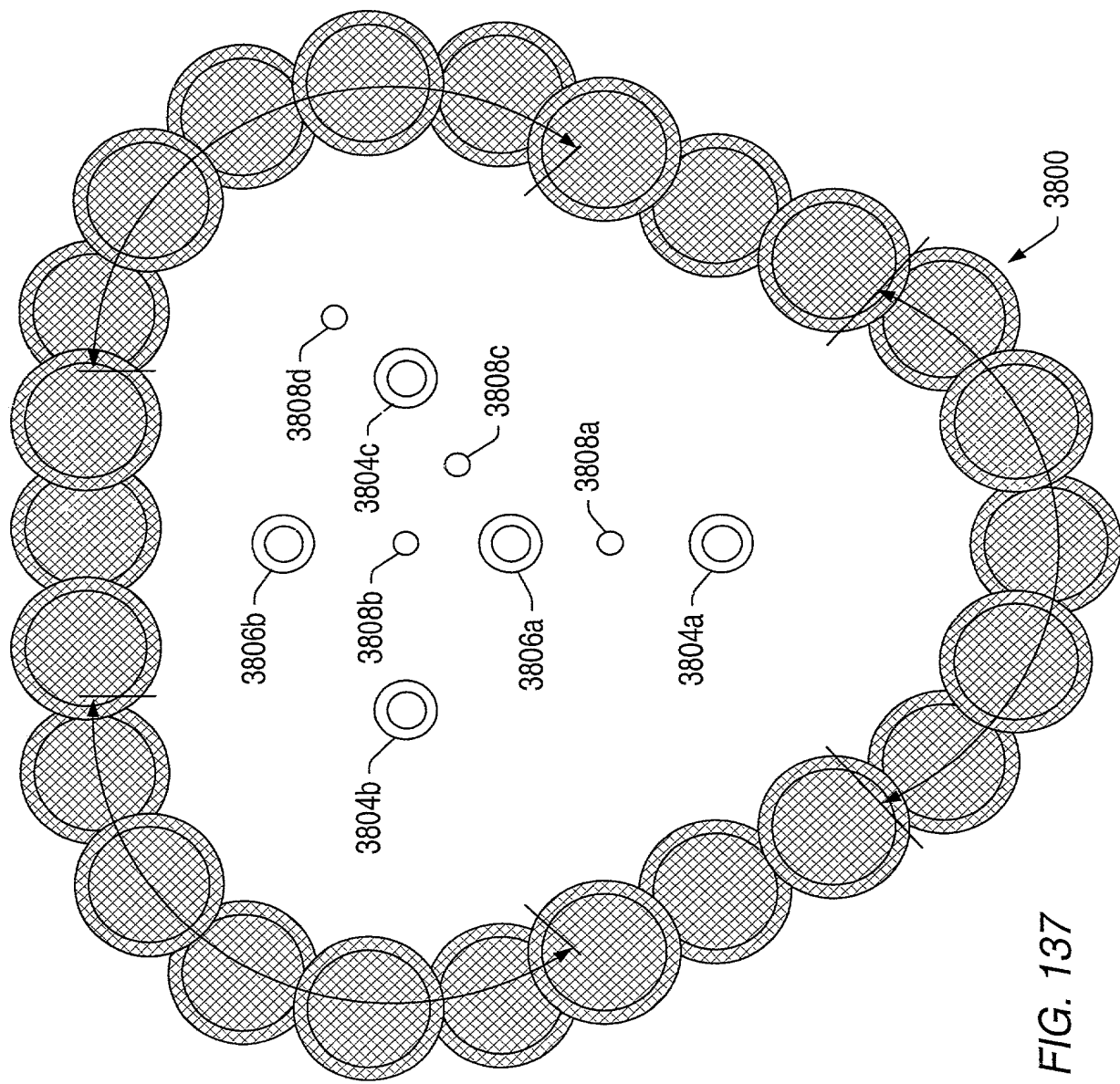
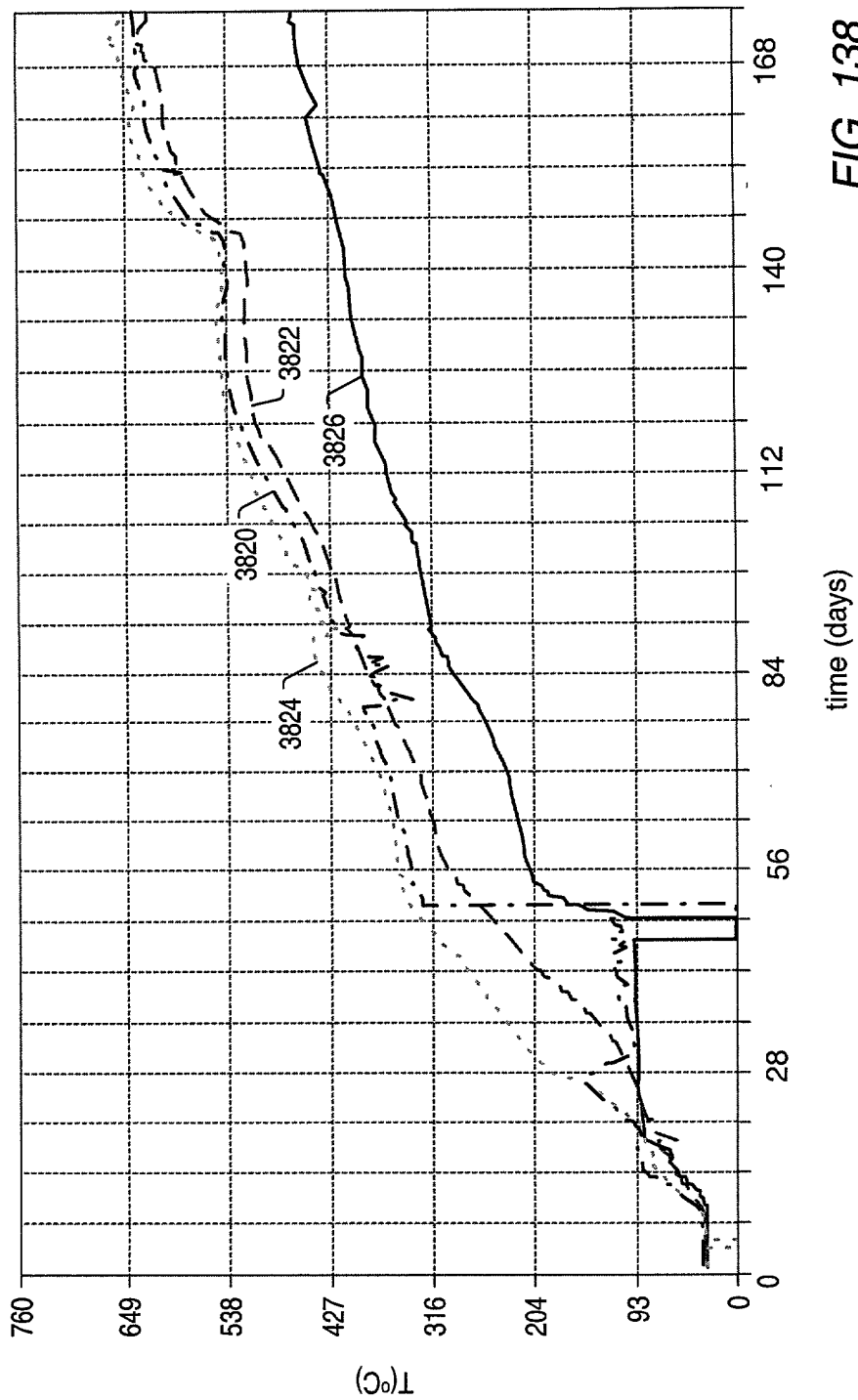


FIG. 138



FOH240" 000F4860

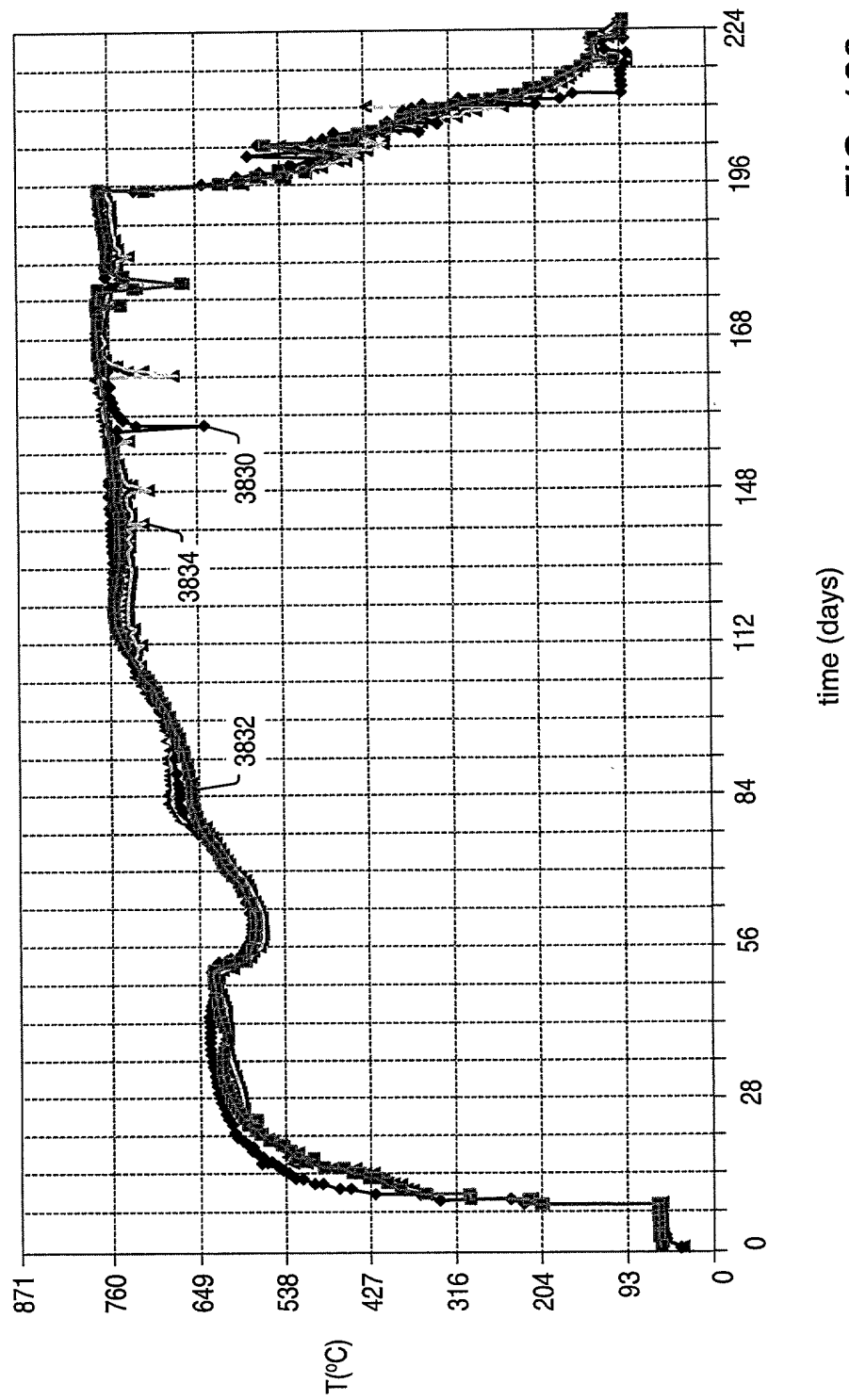


FIG. 139

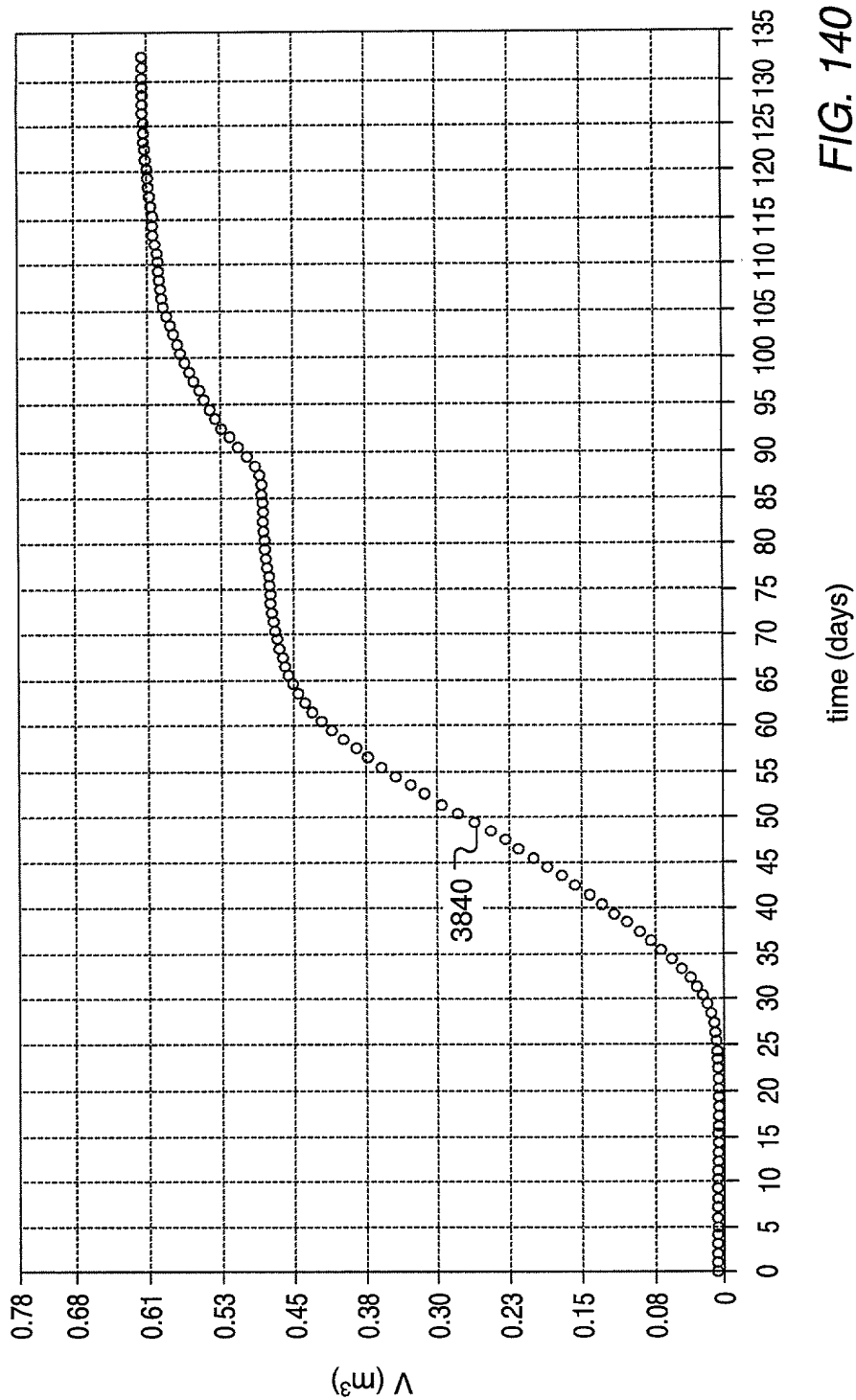
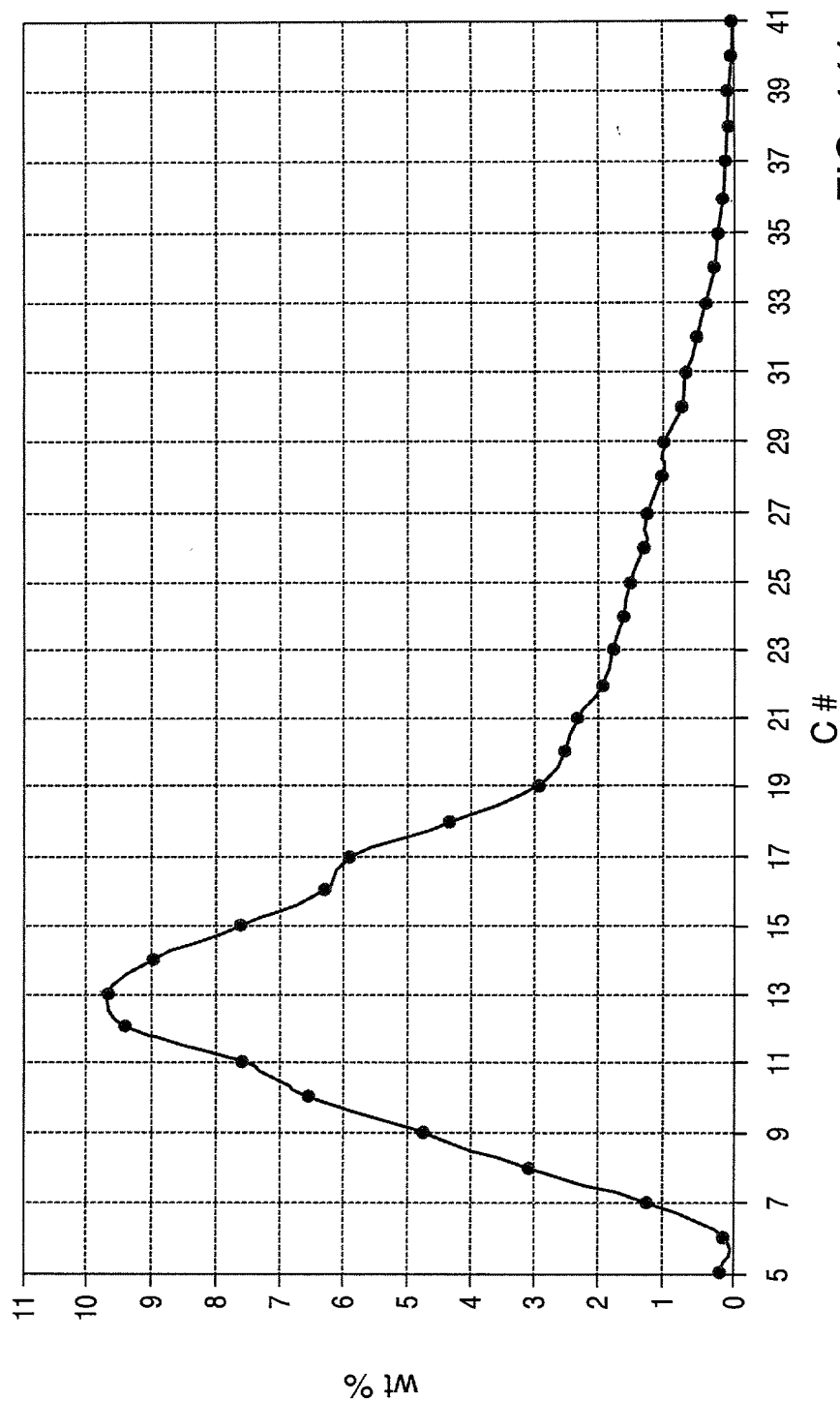


FIG. 140



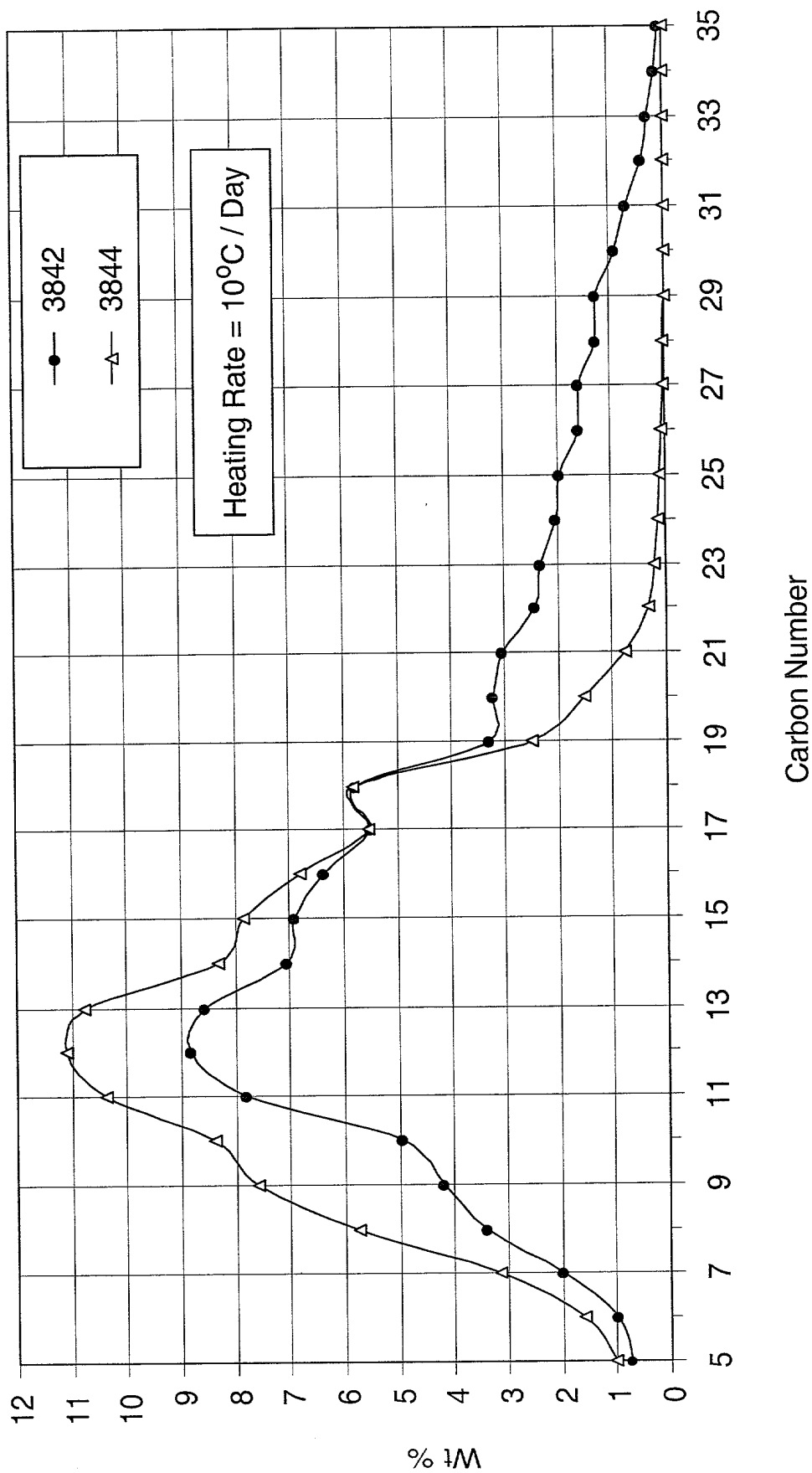


FIG. 142

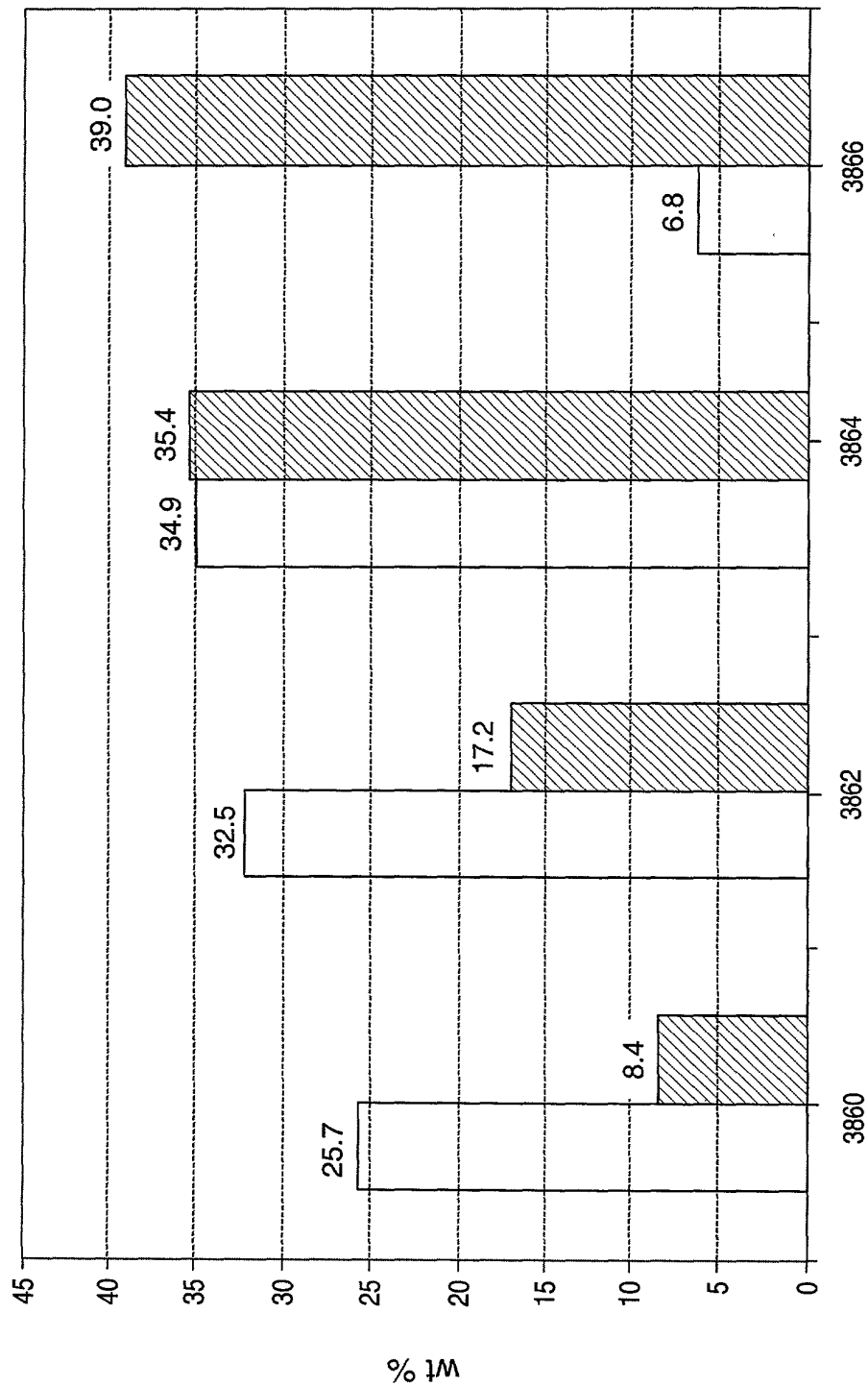


FIG. 143

FOH240" 000T4860

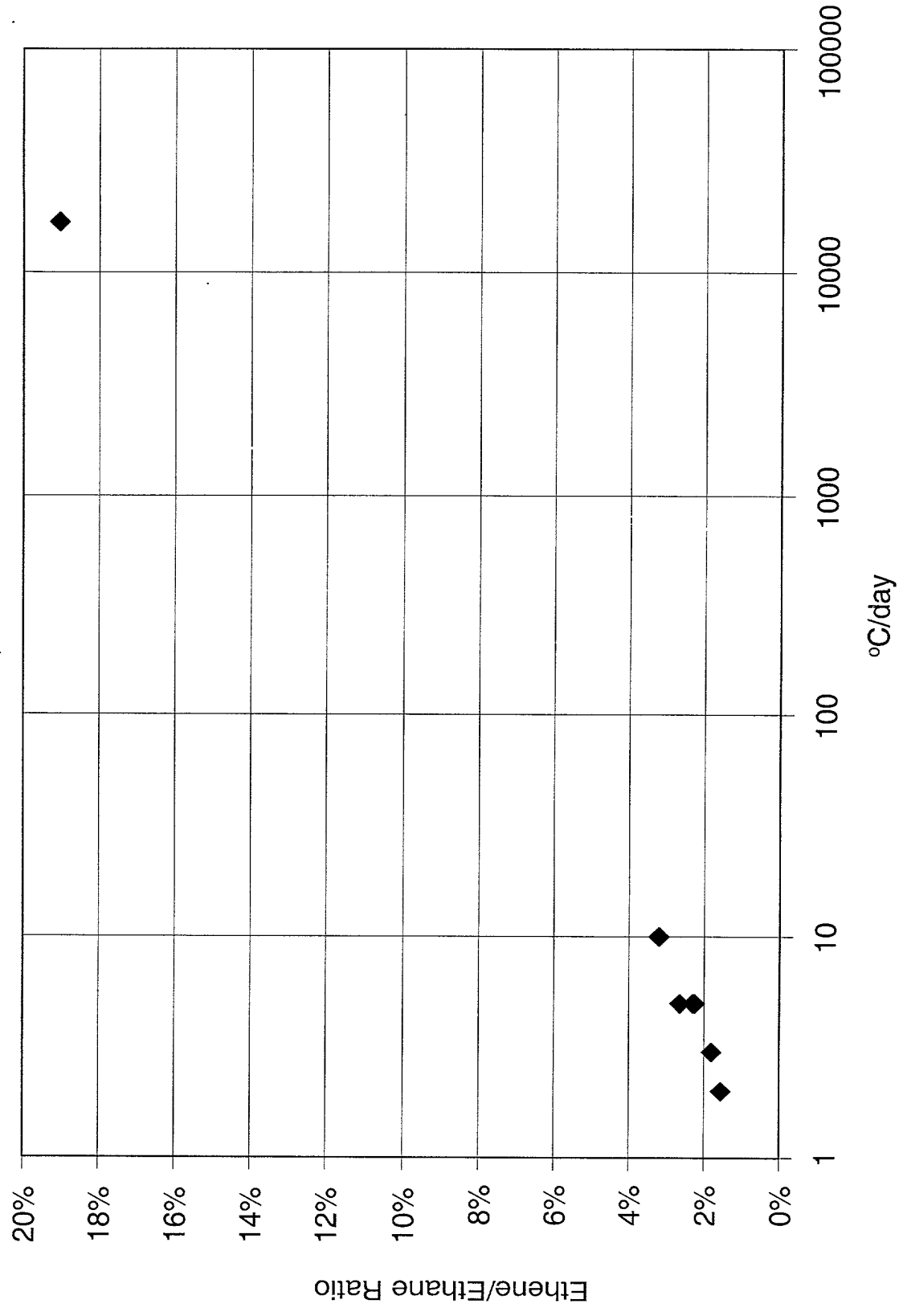


FIG. 144

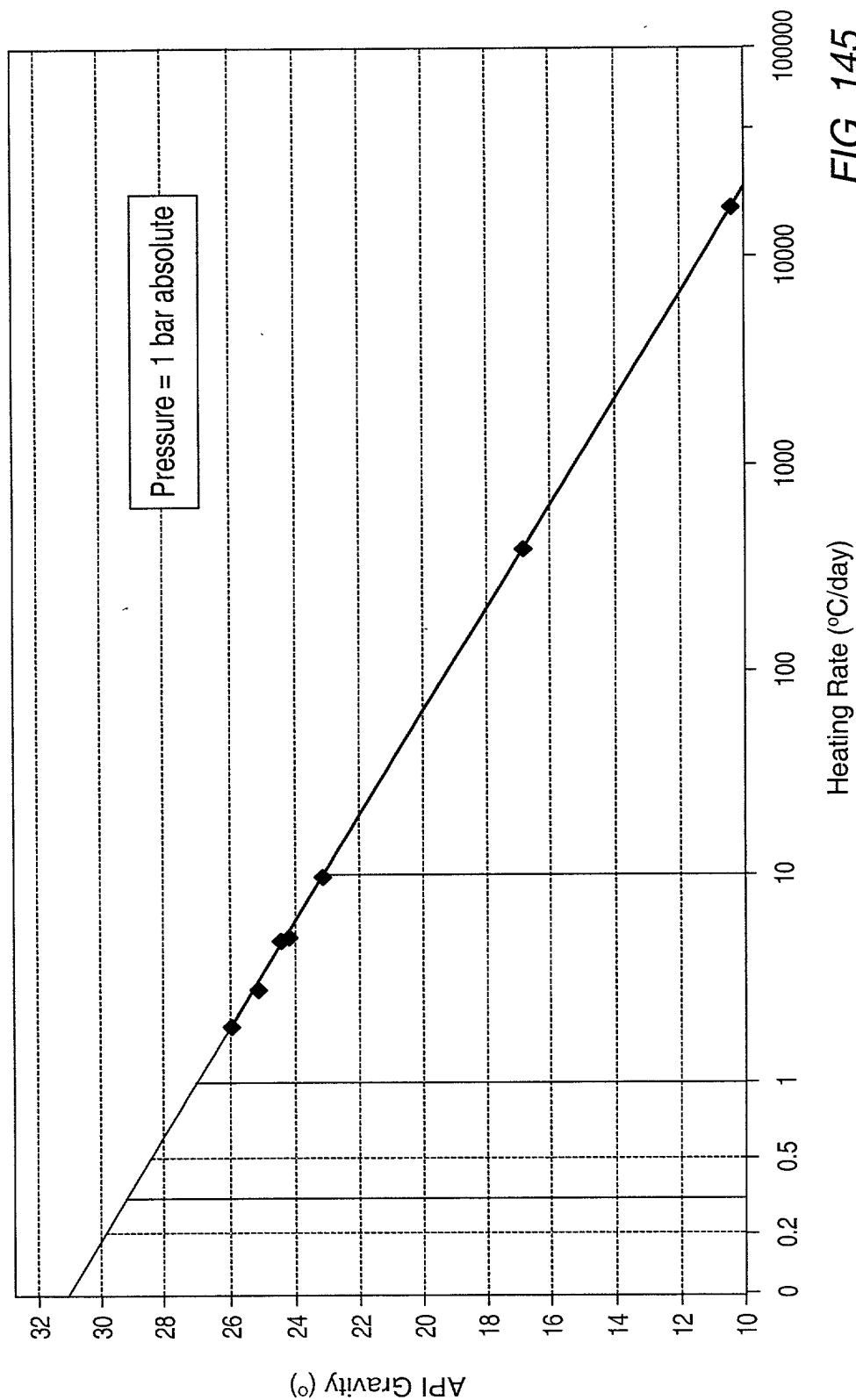


FIG. 145

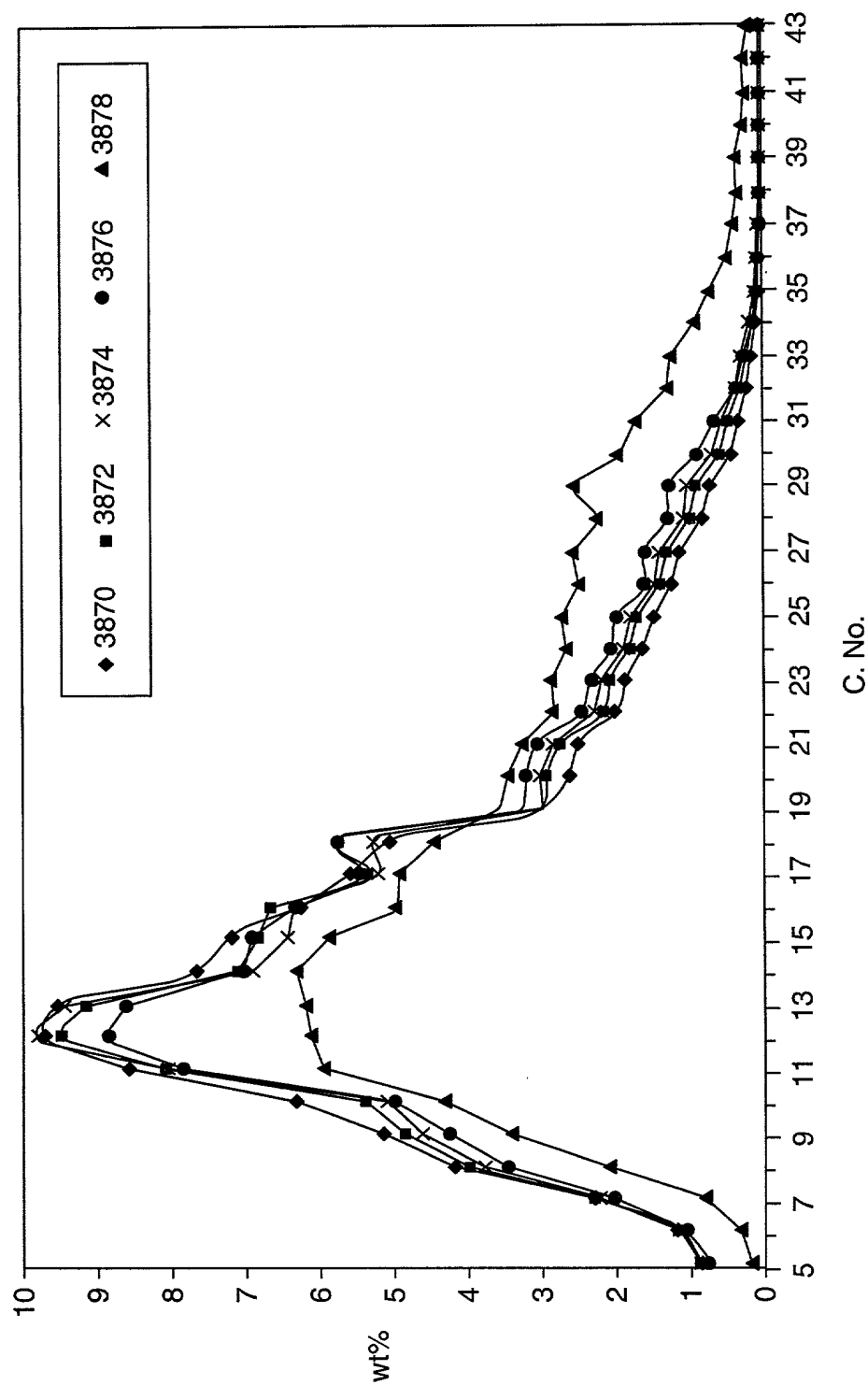


FIG. 146

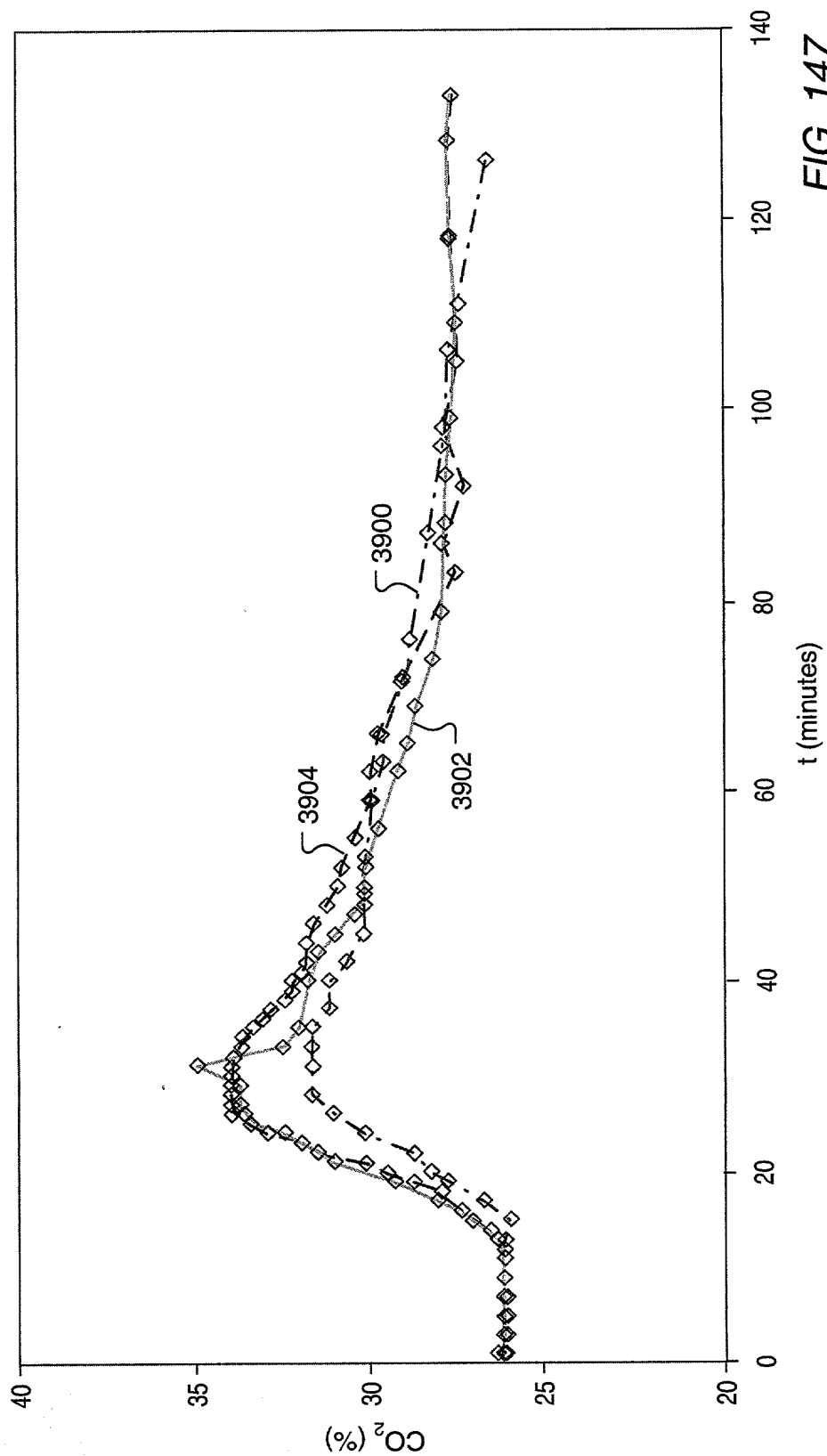


FIG. 147

T04240-000T4850

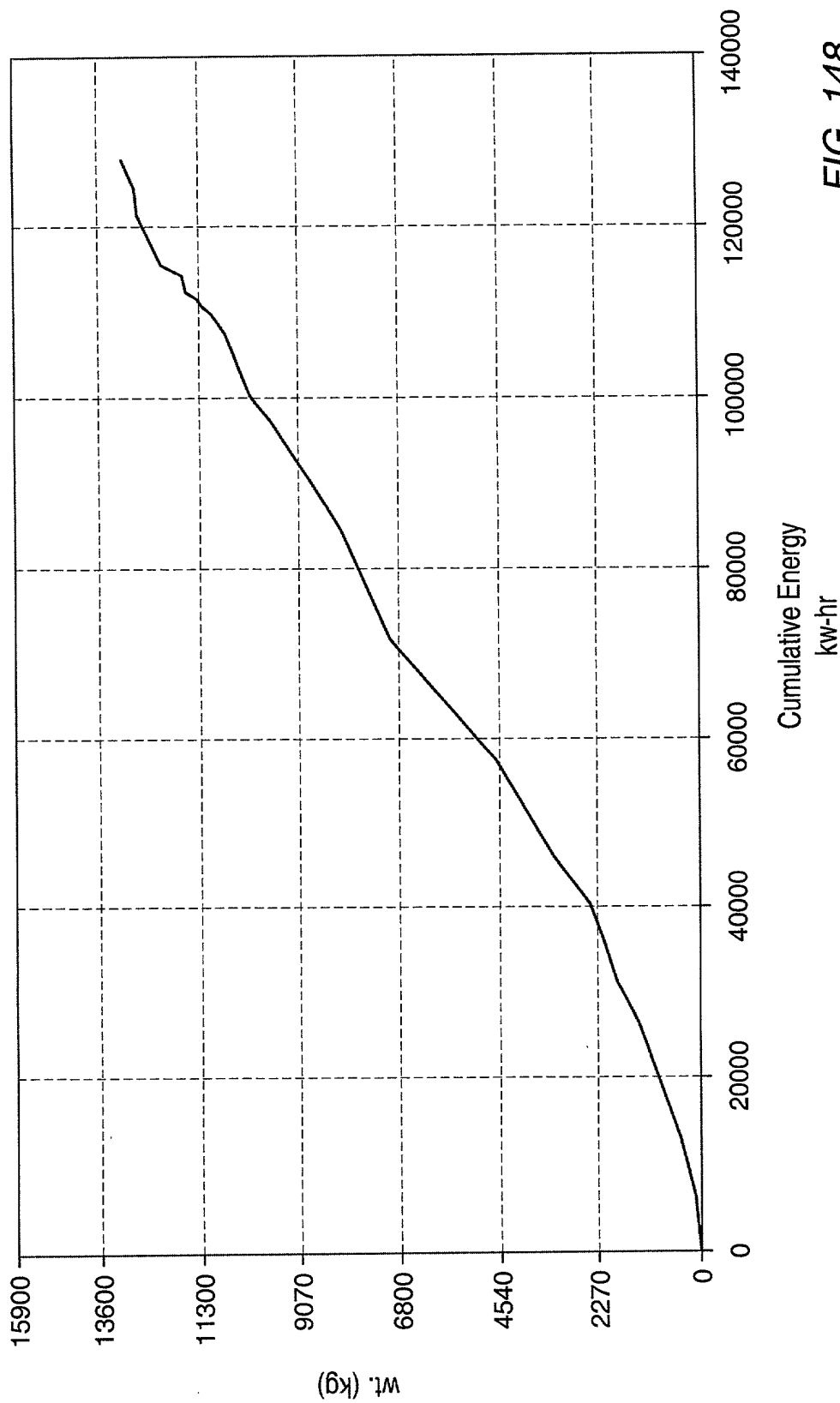


FIG. 148

104240" 000T4860

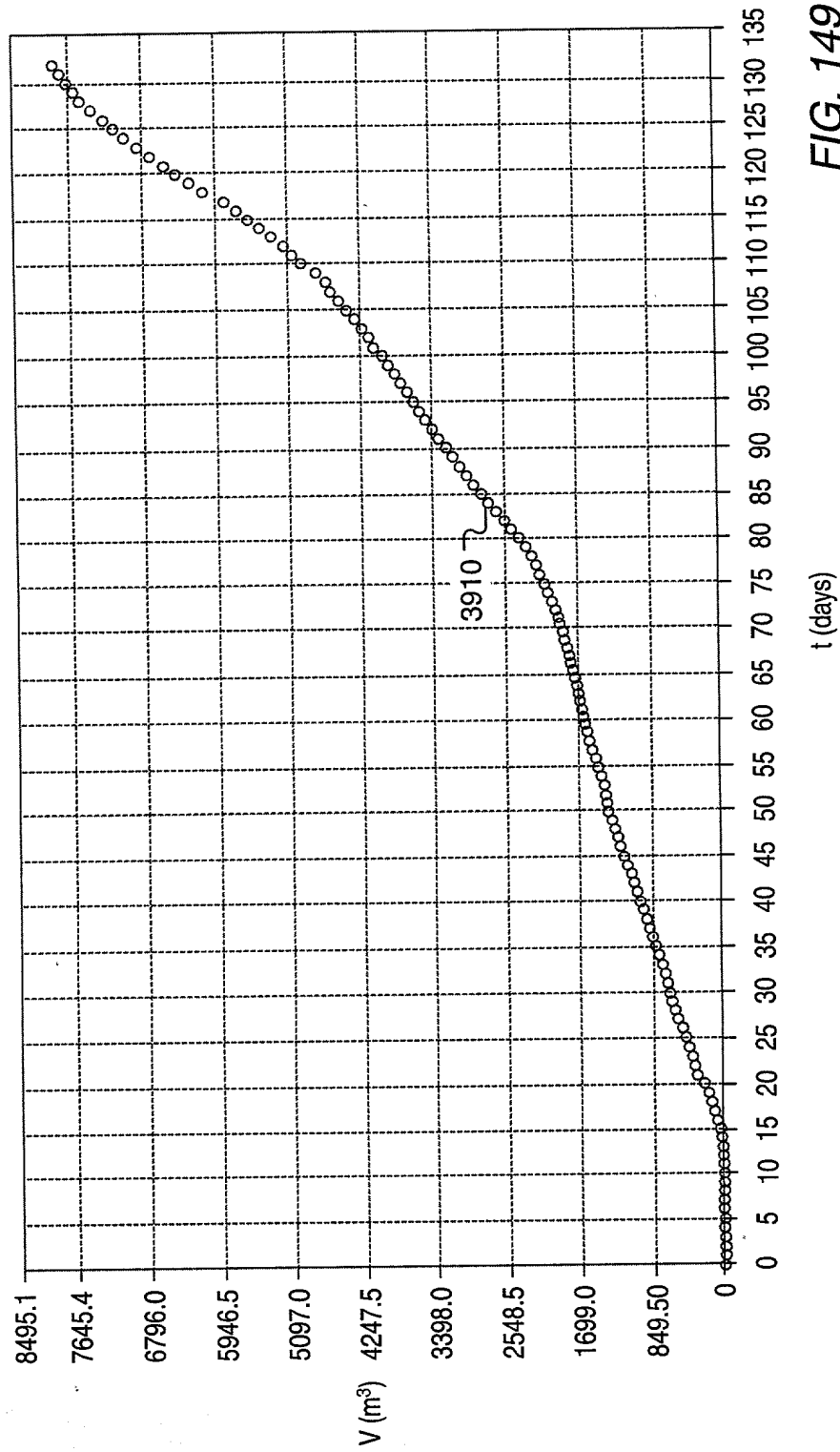


FIG. 149

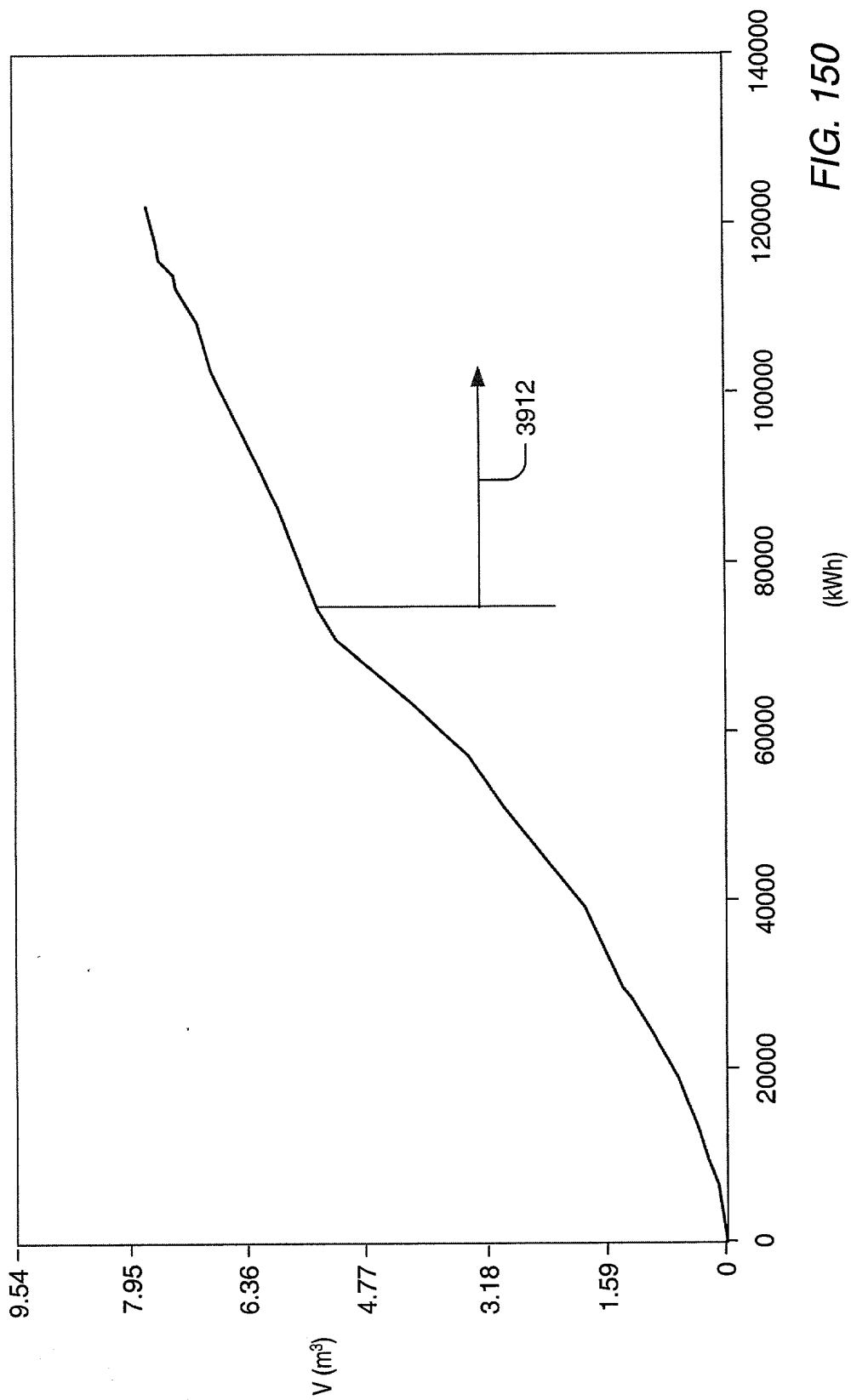


FIG. 150

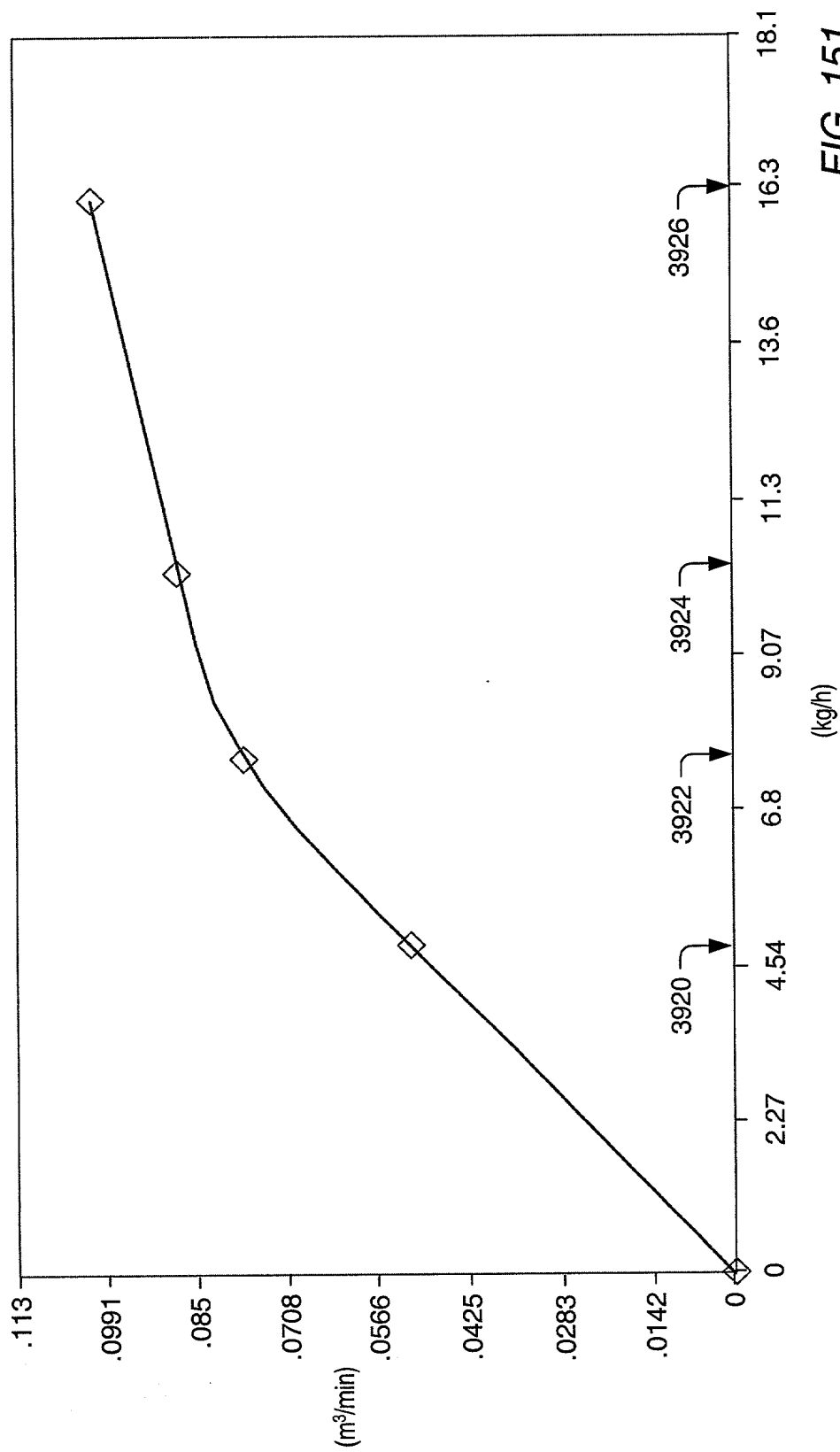


FIG. 151

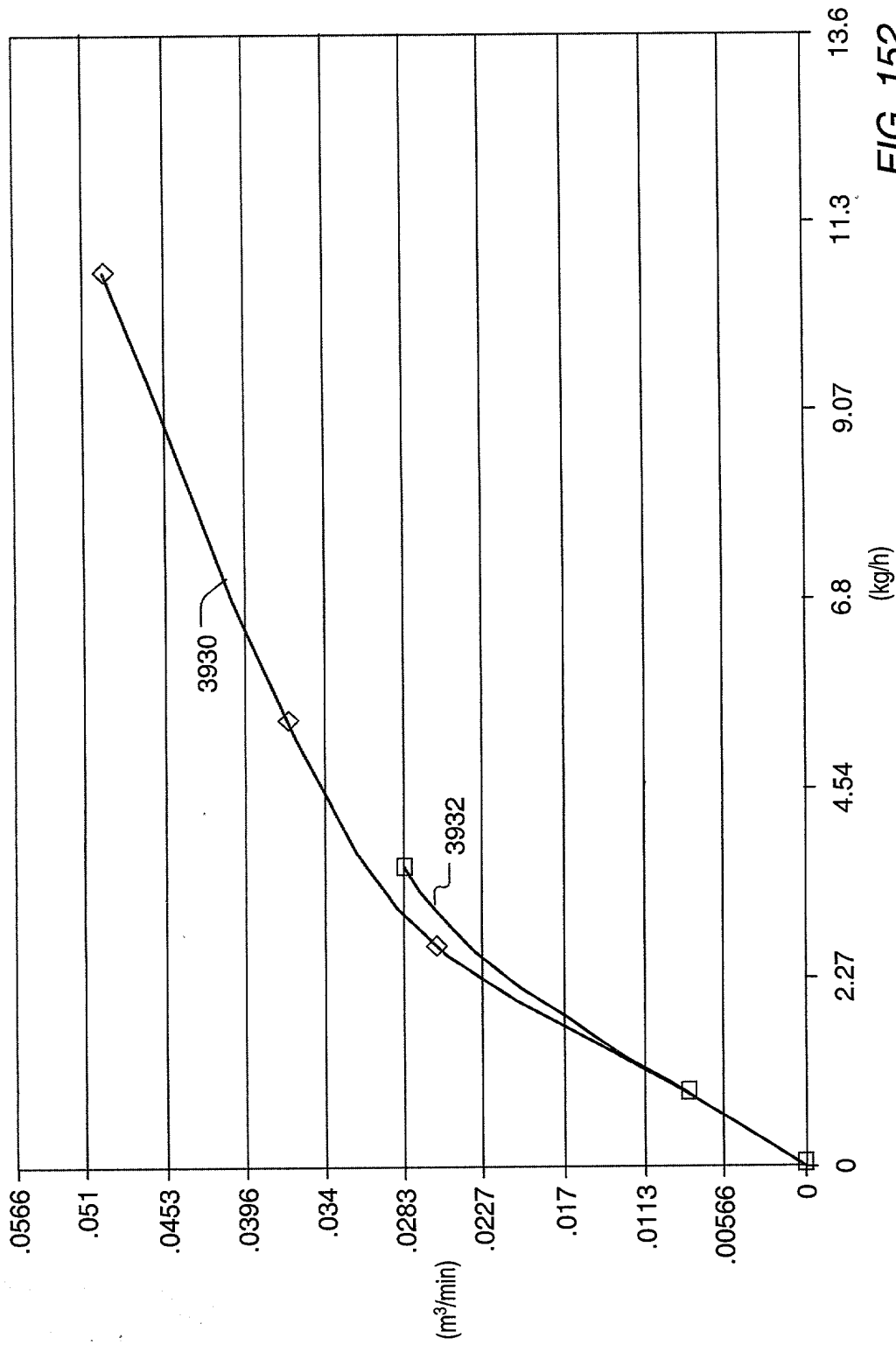


FIG. 152

A scatter plot showing the relationship between Flow Rate (m³/hr) on the y-axis and Methane Injection Rate (m³/hr) on the x-axis. The y-axis ranges from 0 to 8.495 with major ticks every 1.416 units. The x-axis ranges from 0 to 16.99 with major ticks every 2.832 units. Two data series are plotted: Series 3940 (represented by squares) and Series 3942 (represented by diamonds). Both series show a positive correlation, with Flow Rate increasing as Methane Injection Rate increases. Series 3940 generally has higher flow rates than Series 3942 for the same injection rate.

Methane Injection Rate (m³/hr)	Flow Rate (m³/hr) - Series 3940	Flow Rate (m³/hr) - Series 3942
0.0	0.0	0.0
0.5	0.2	0.0
5.7	5.2	4.6
14.2	7.2	5.8
14.5	7.5	6.0
14.8	7.8	6.2

Methane Injection Rate (m^3/hr)

FOH240" 00074860

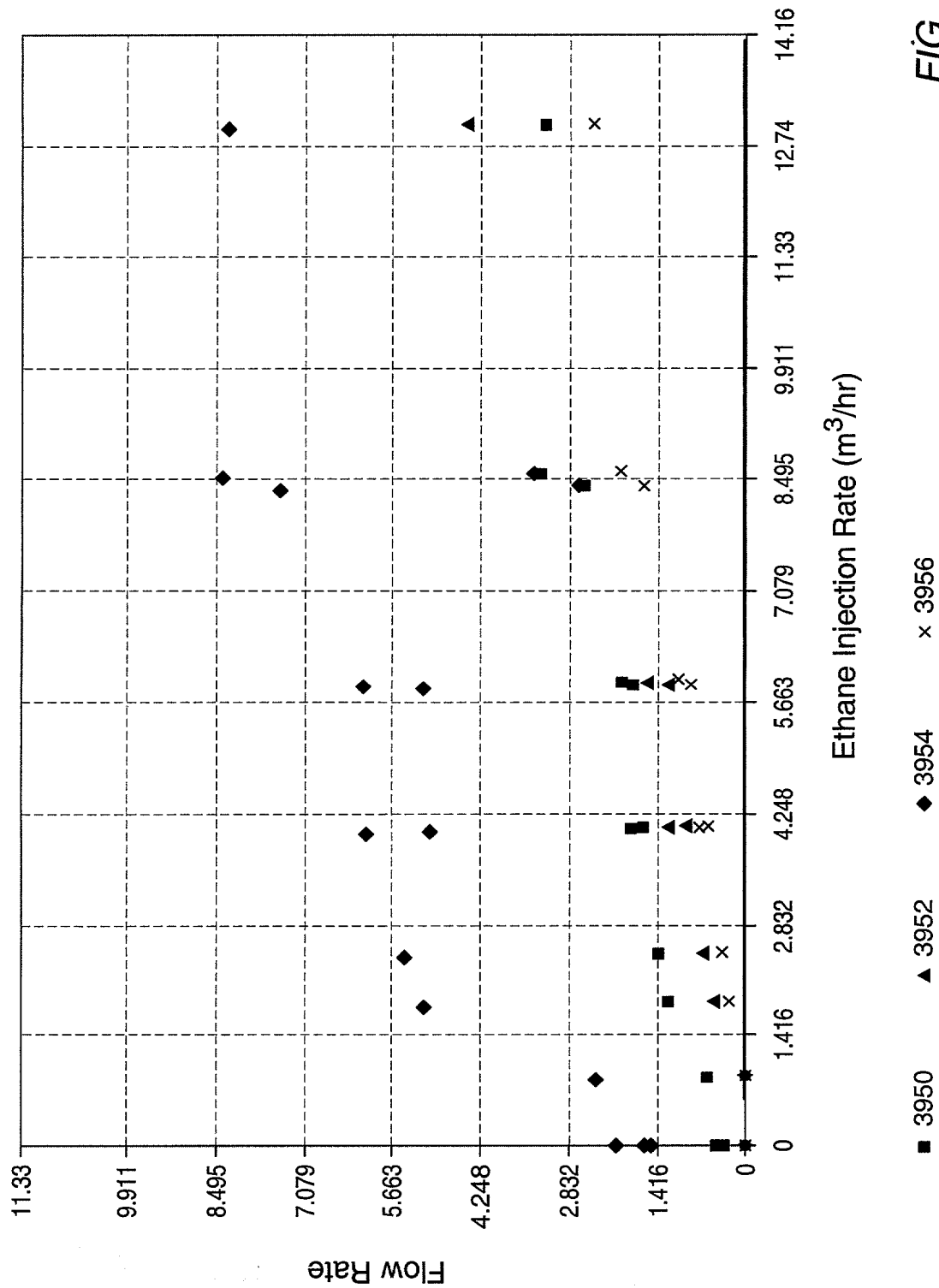


FIG. 154

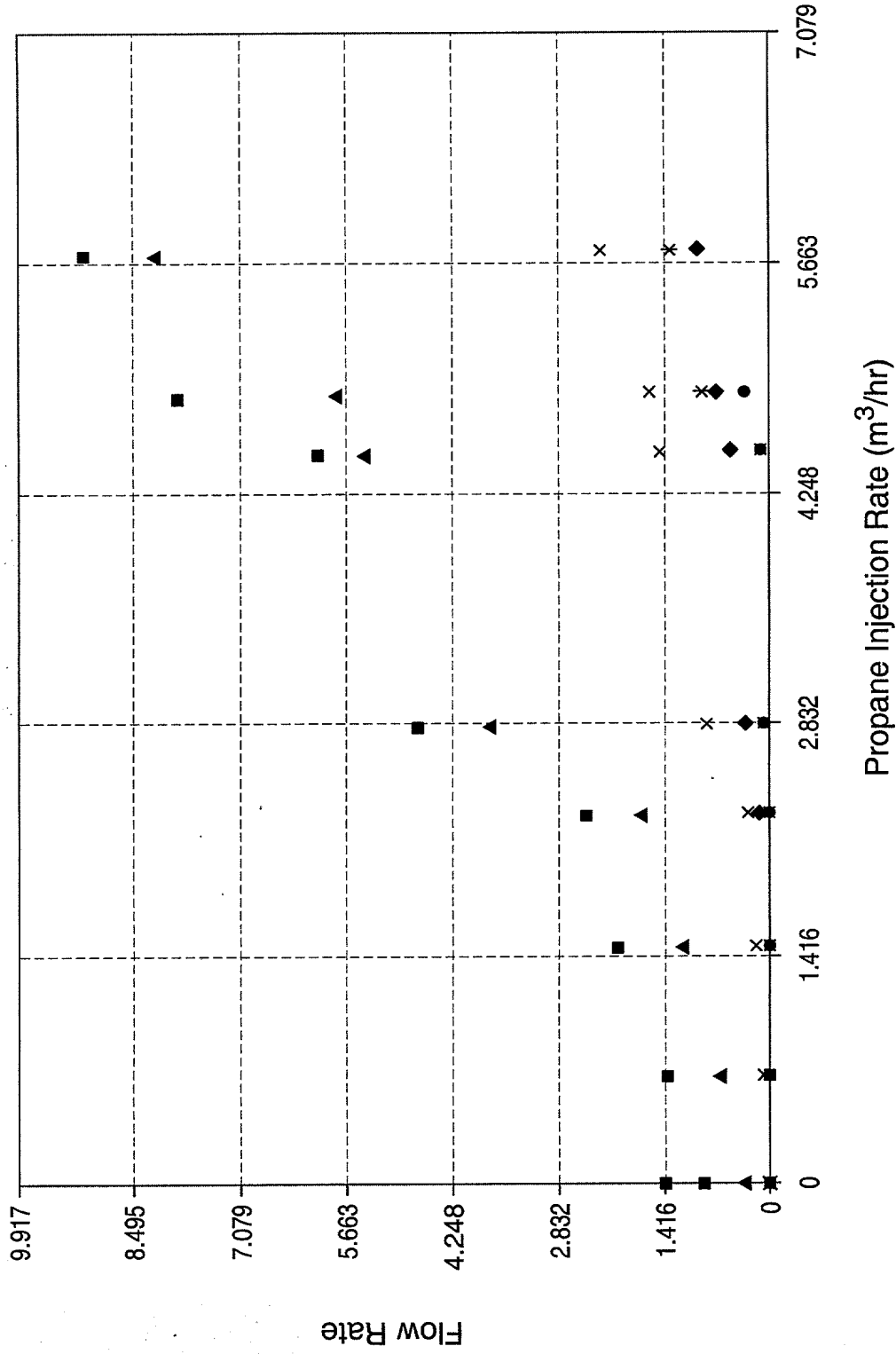
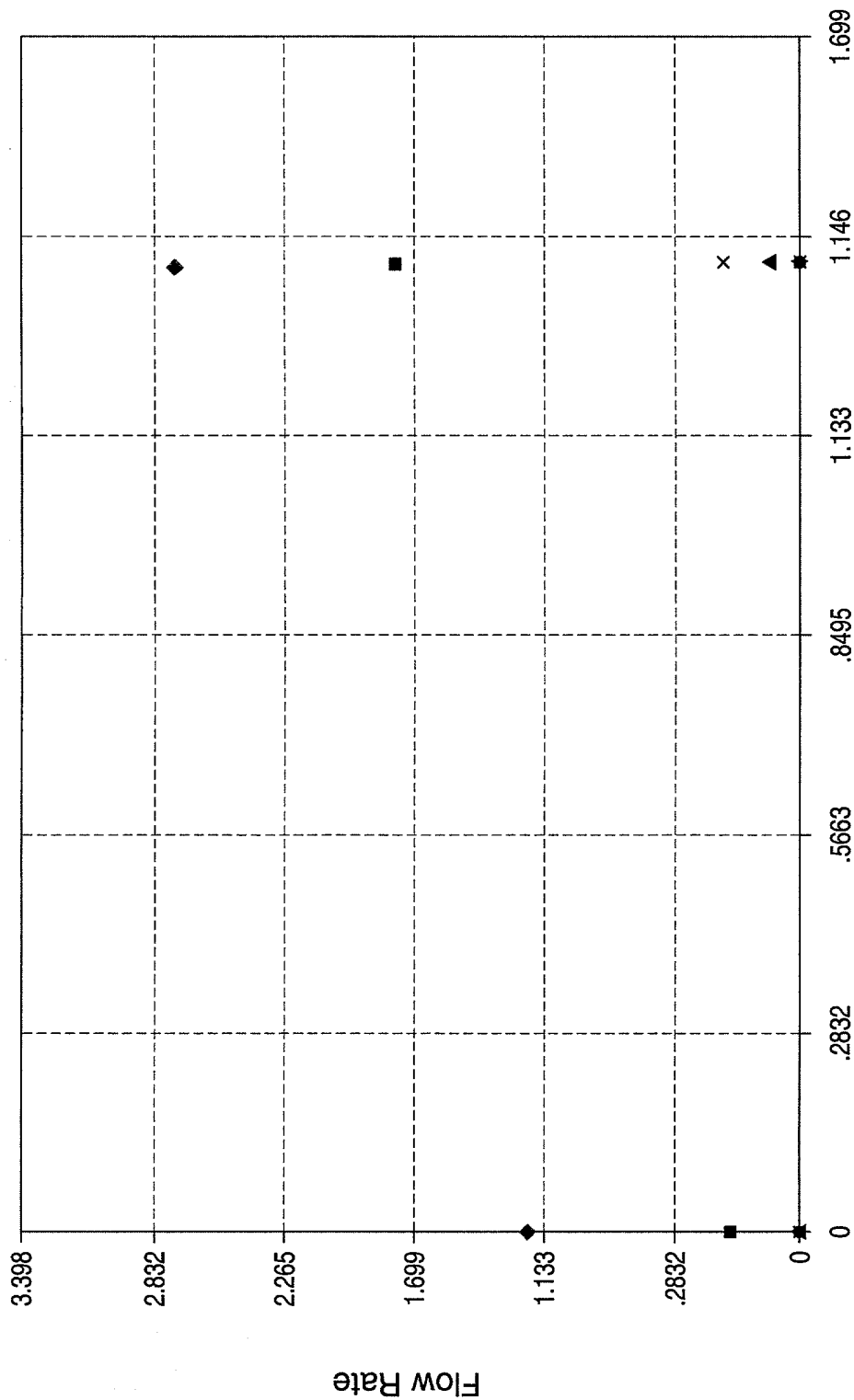


FIG. 155

FOH240" 000T4860



Butane Injection Rate (m³/hr)

■ 3970 ▲ 3972 ◆ 3974 × 3976 * 3978 ● 3979

FIG. 156

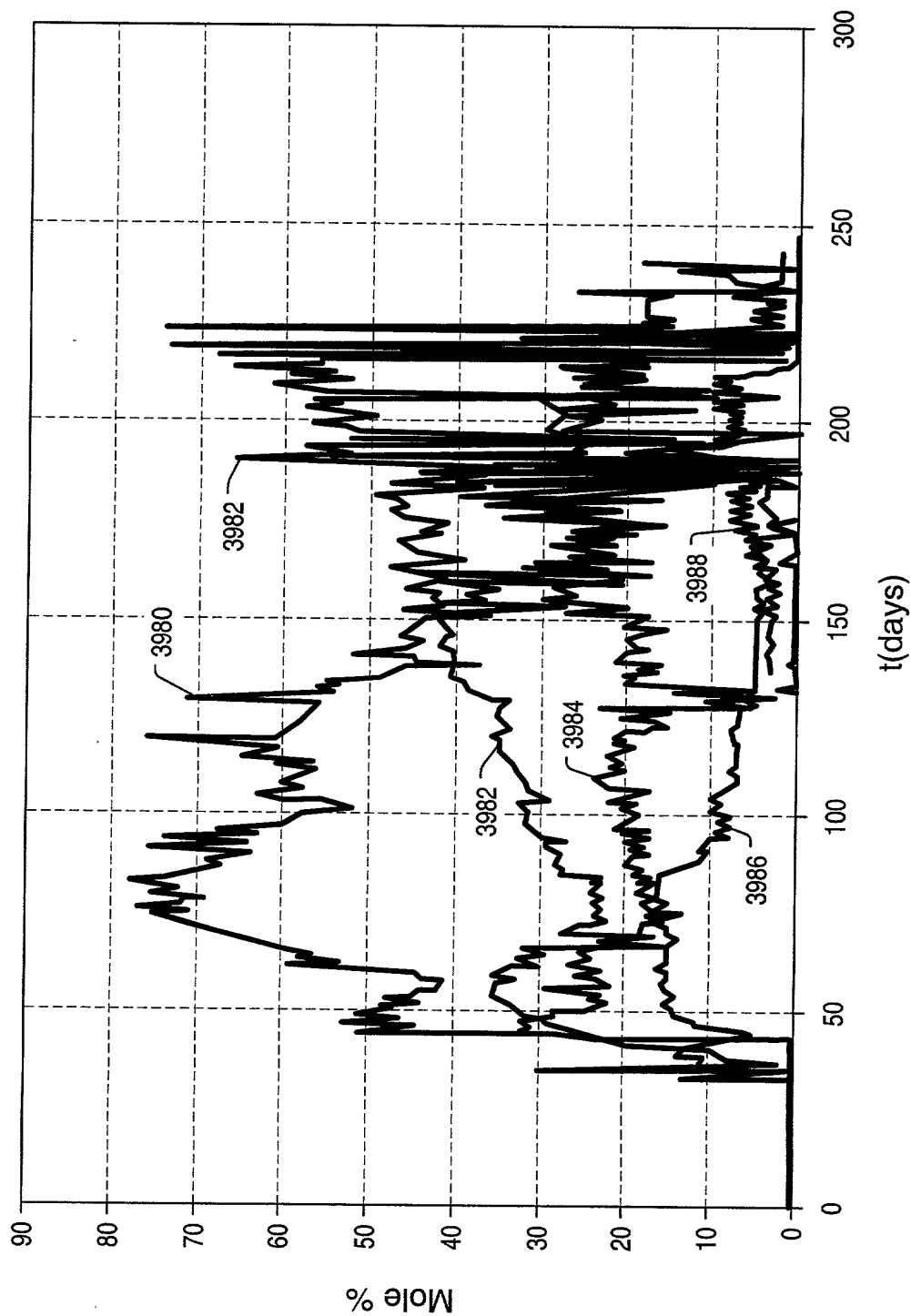


FIG. 157

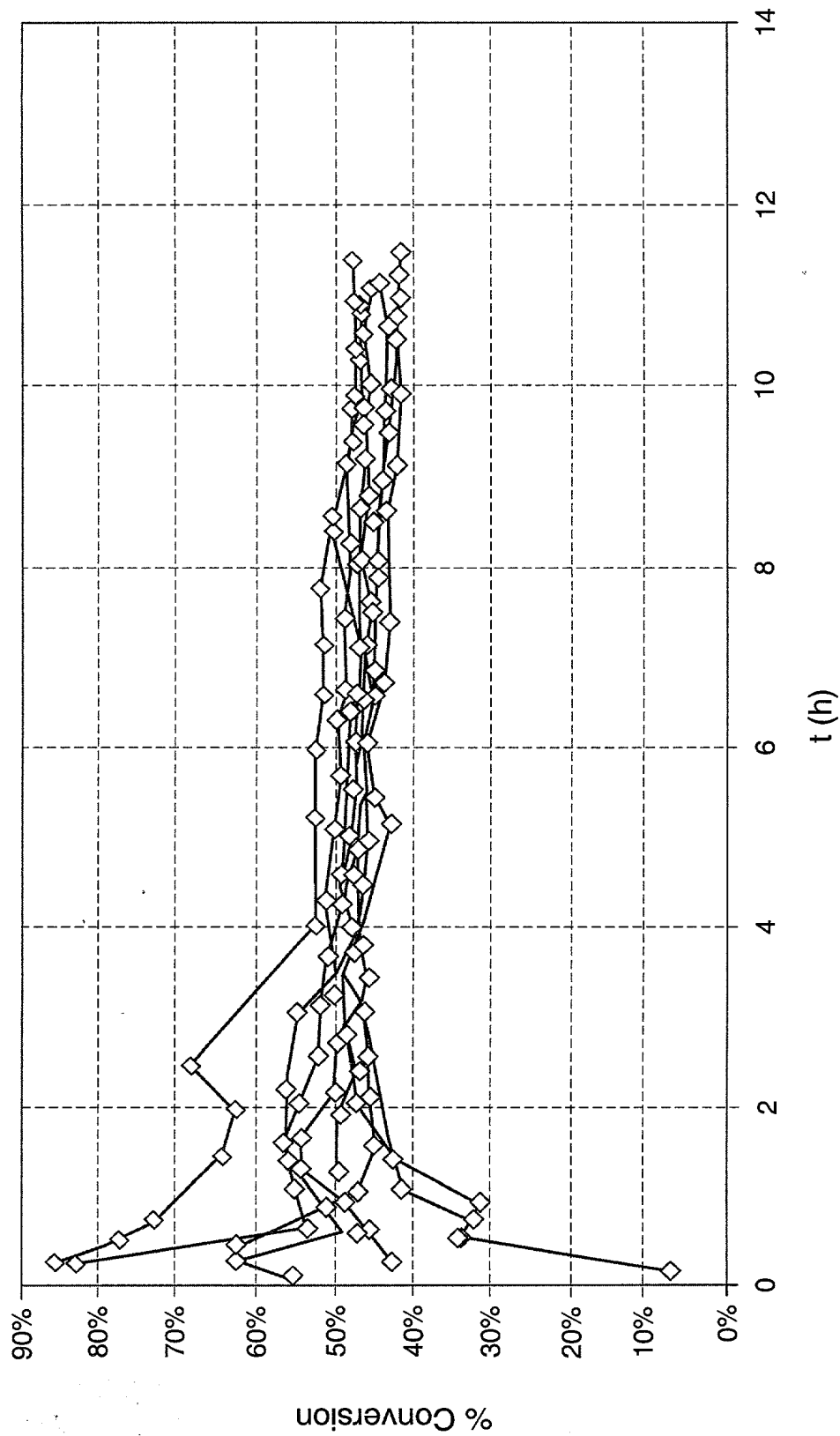


FIG. 158

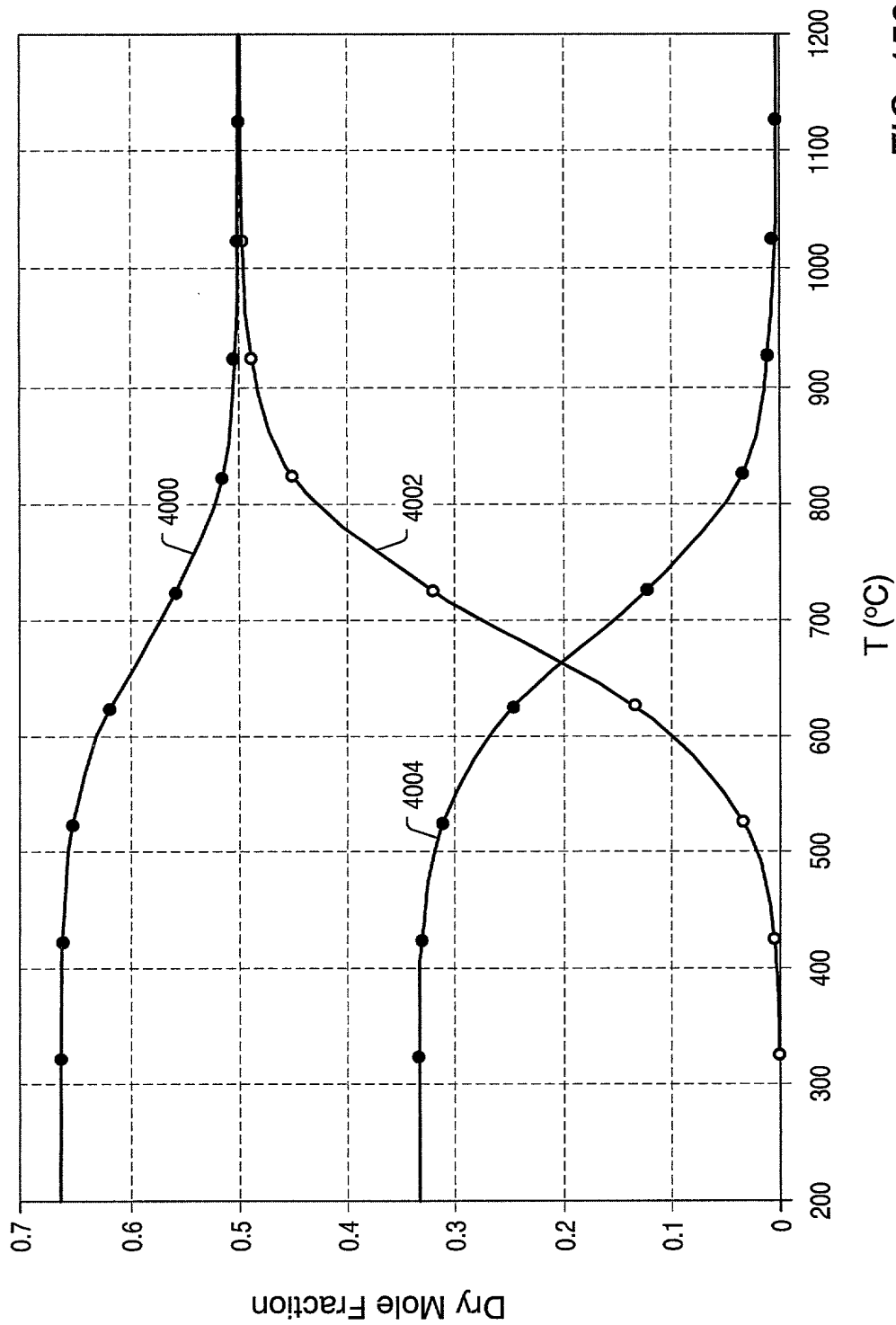


FIG. 159

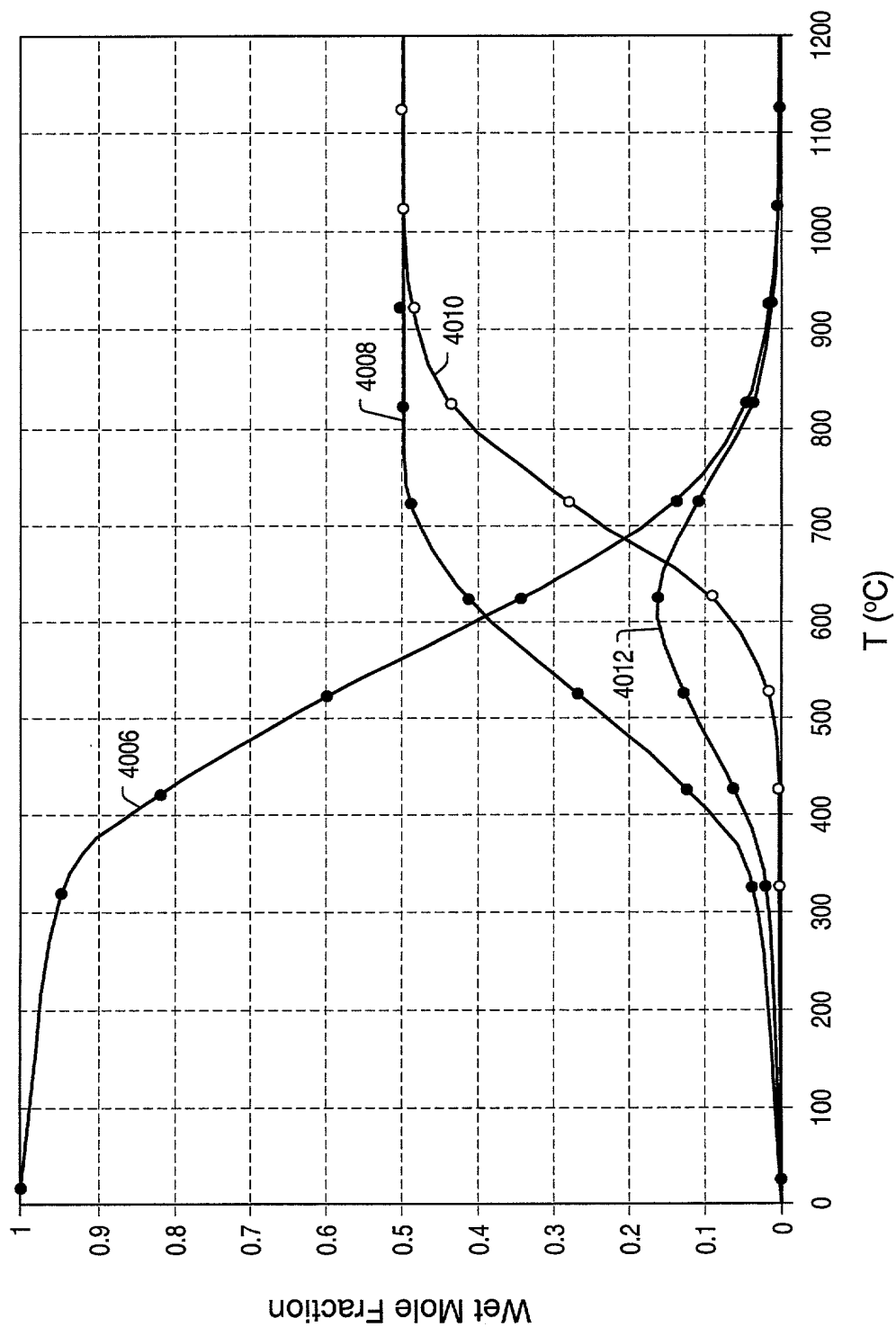


FIG. 160

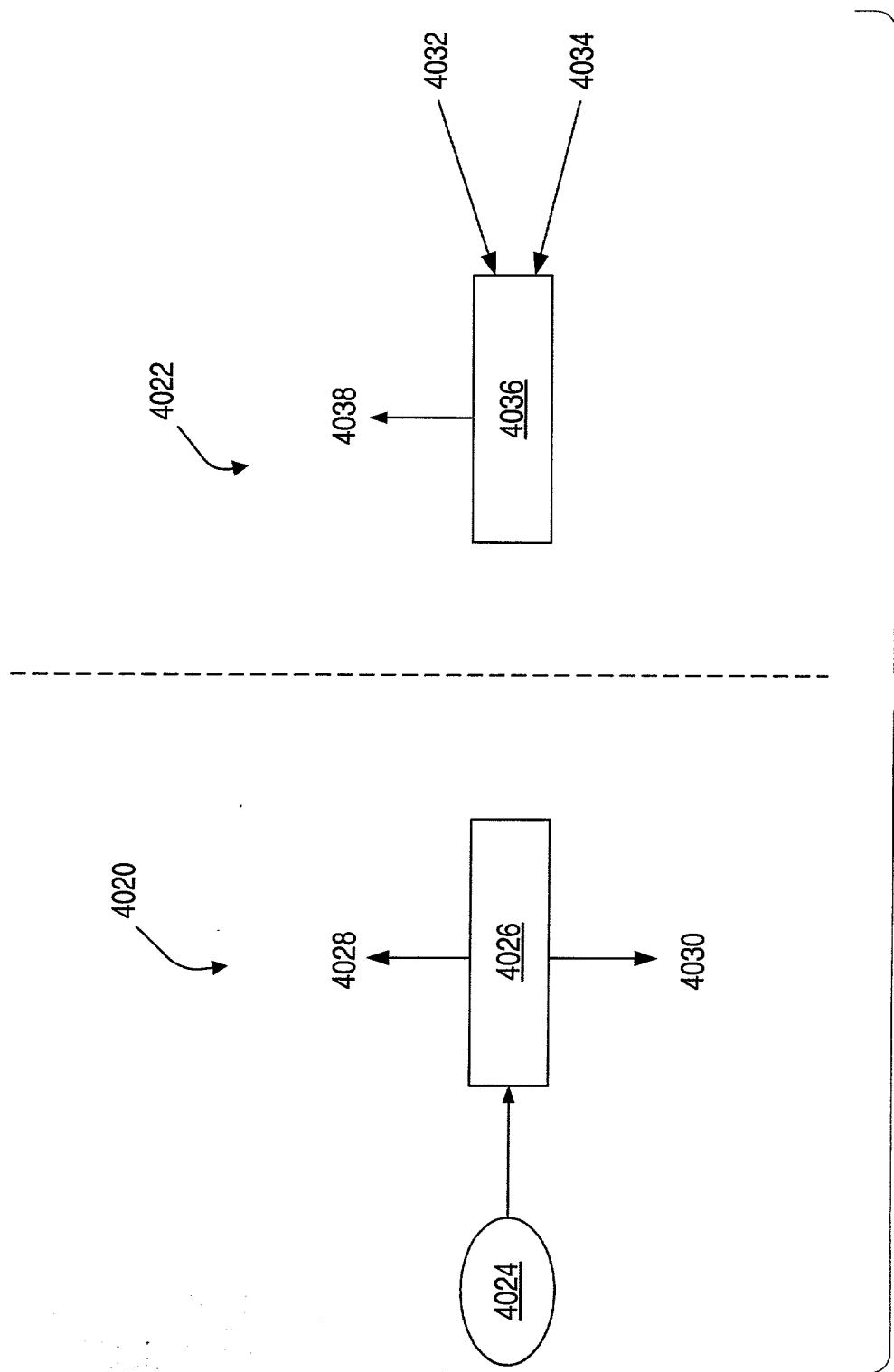


FIG. 161

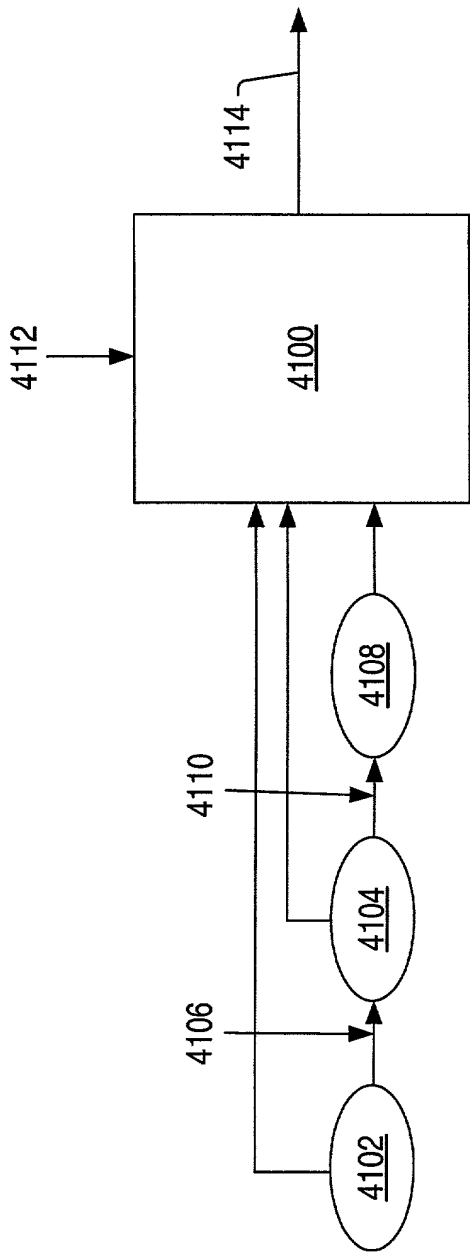


FIG. 162

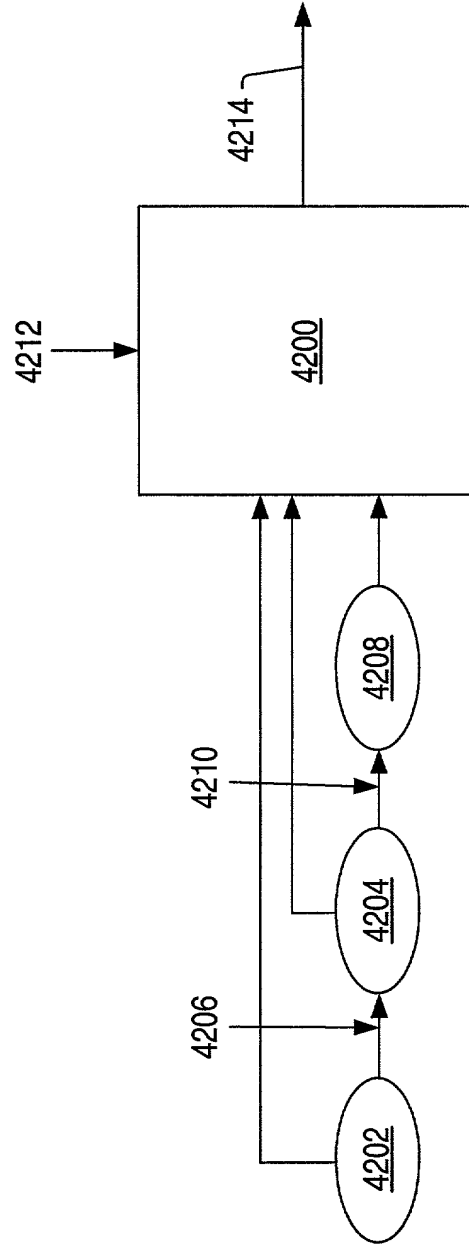


FIG. 163

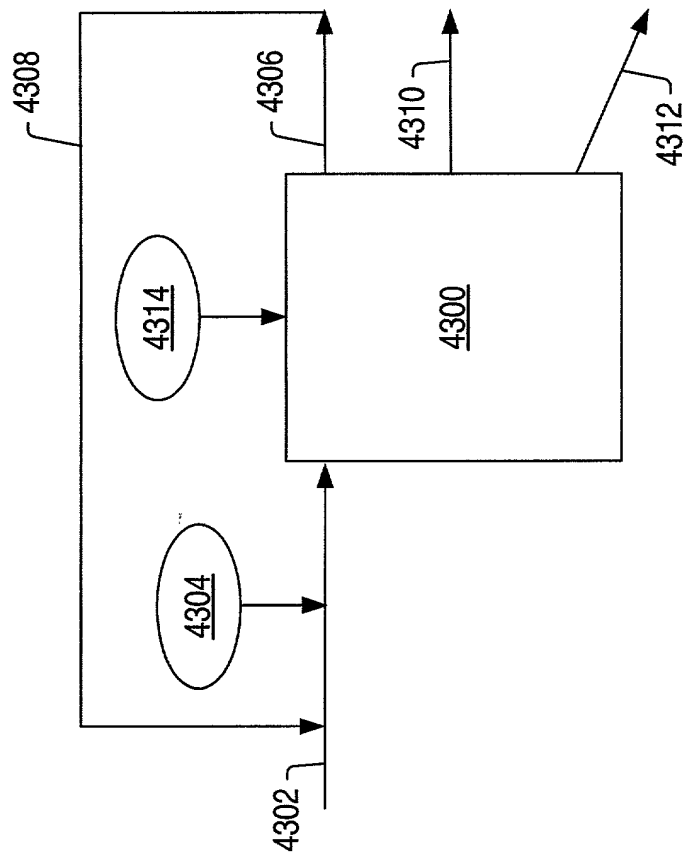


FIG. 164

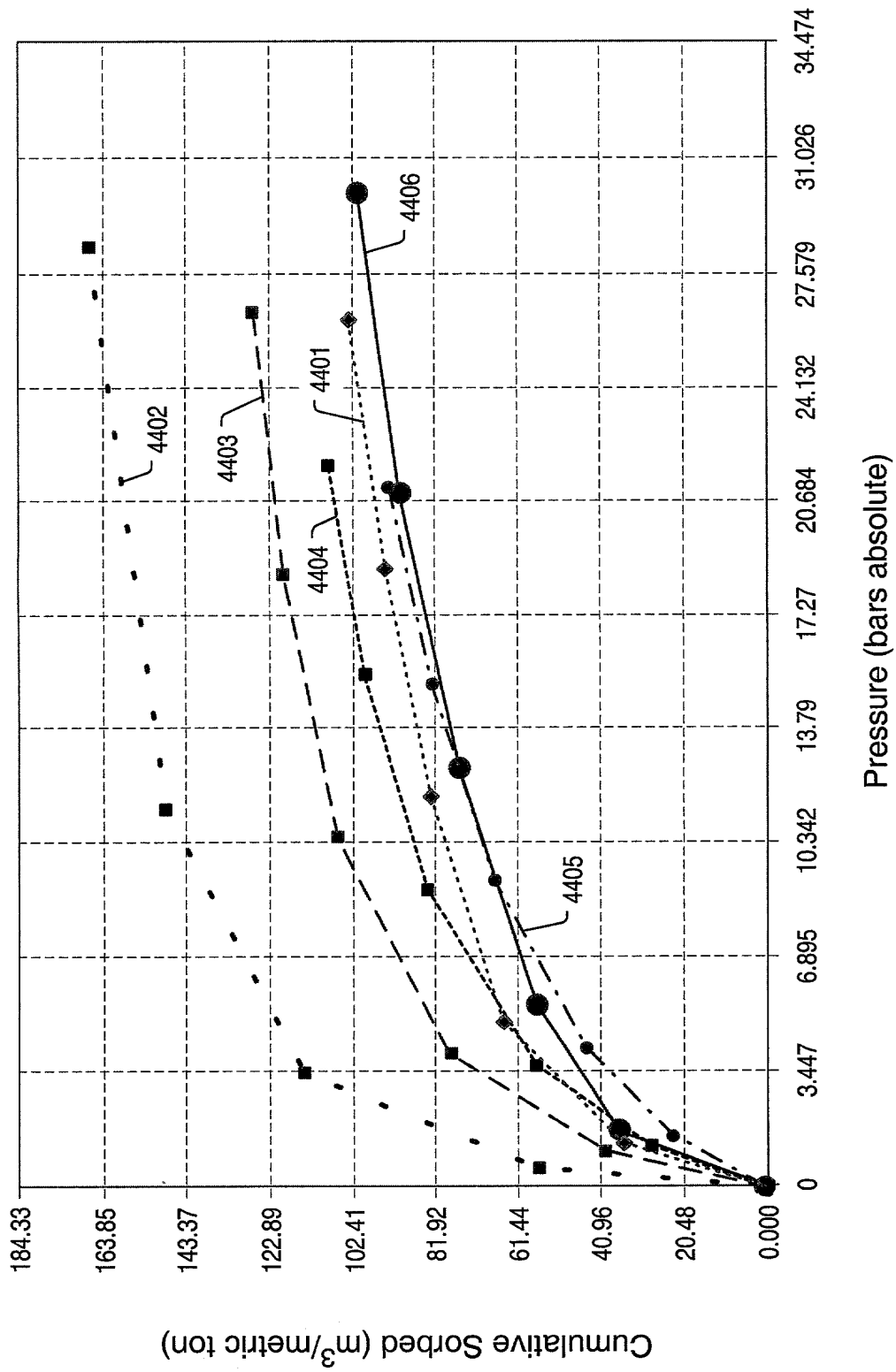


FIG. 165

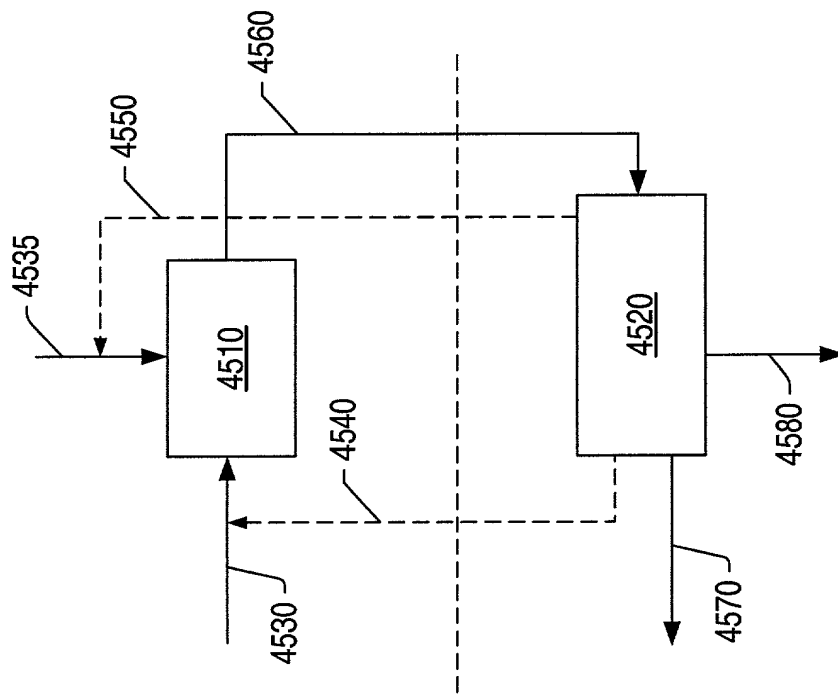


FIG. 166

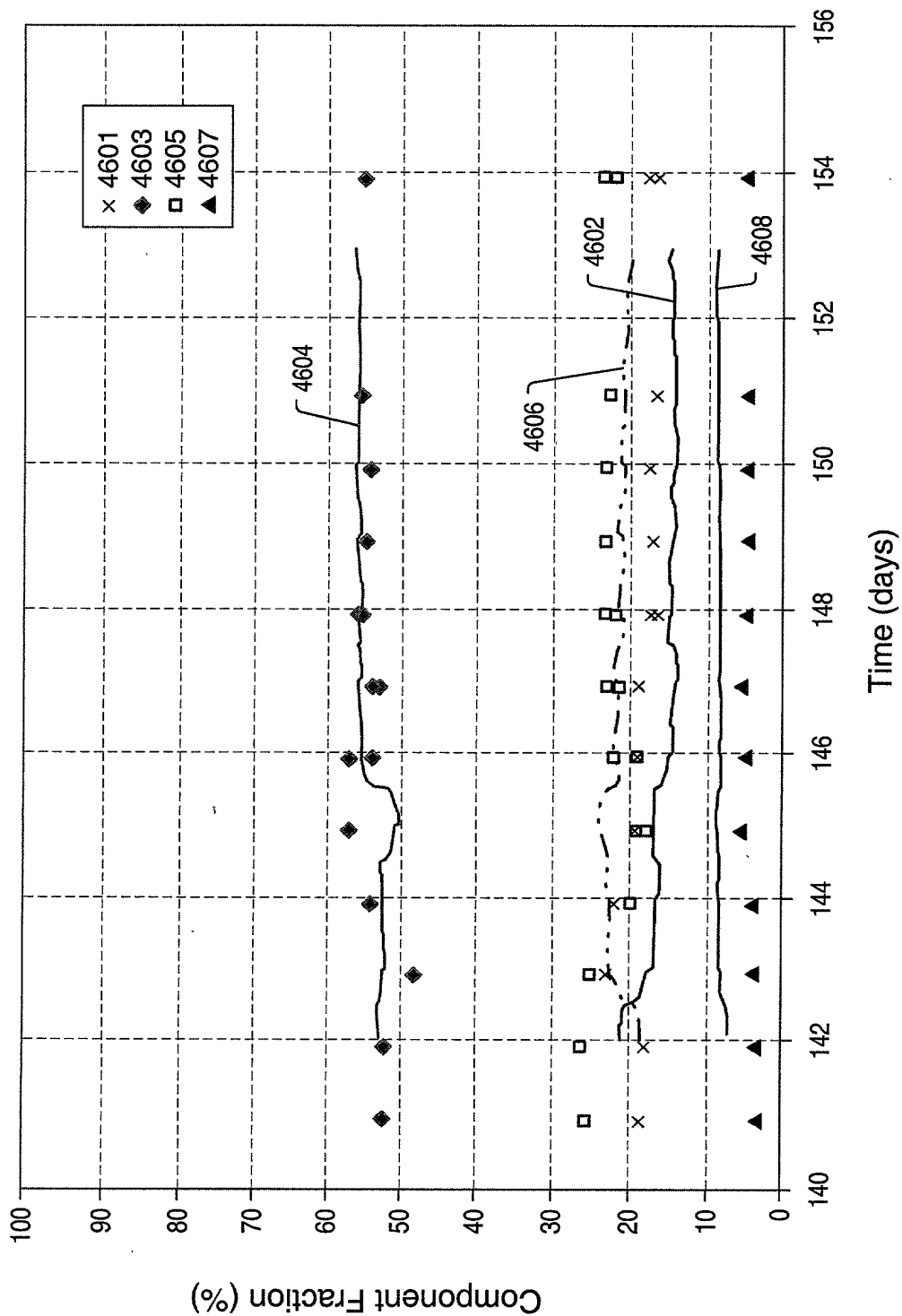


FIG. 167

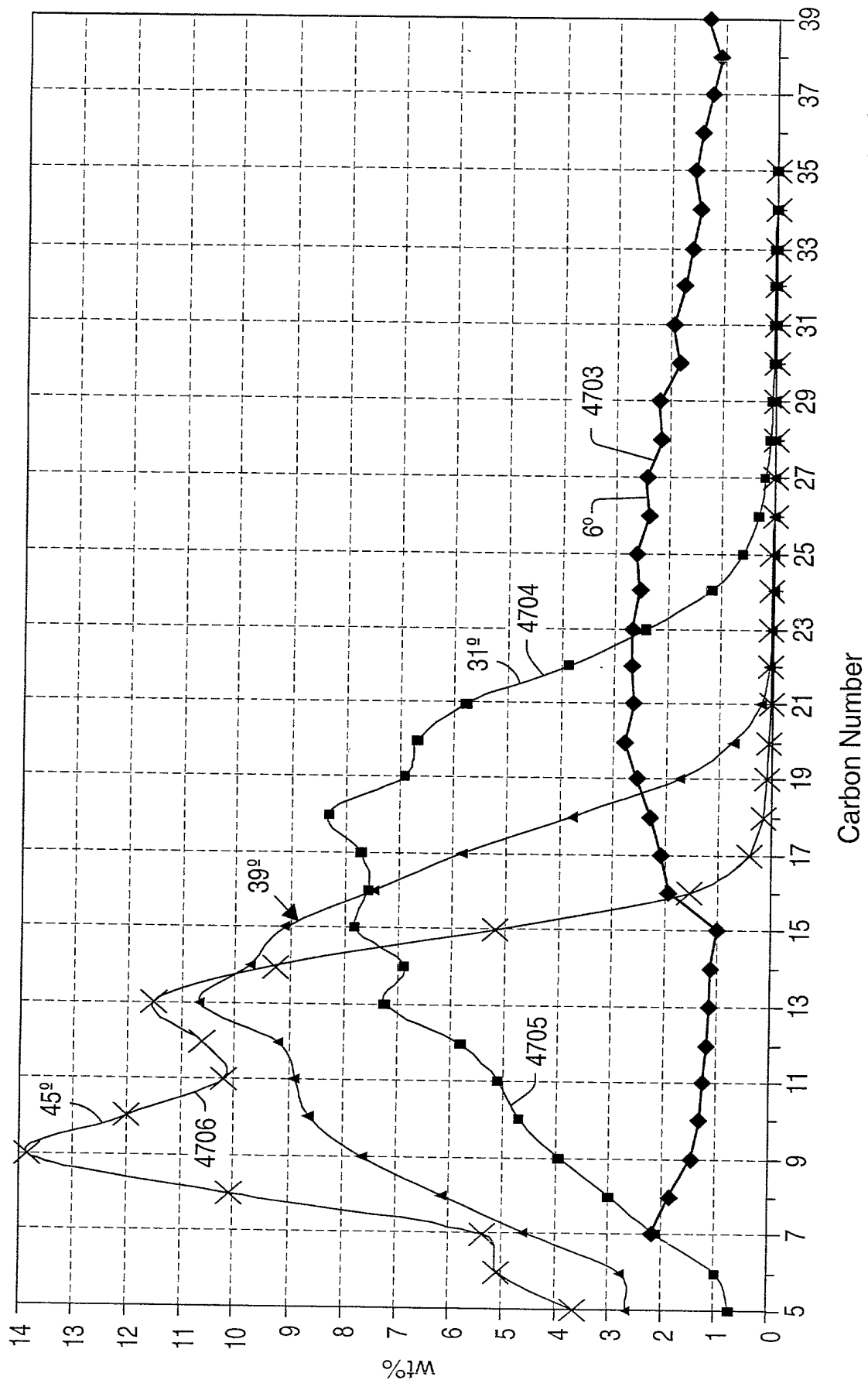


FIG. 168

T04240" 000T4850

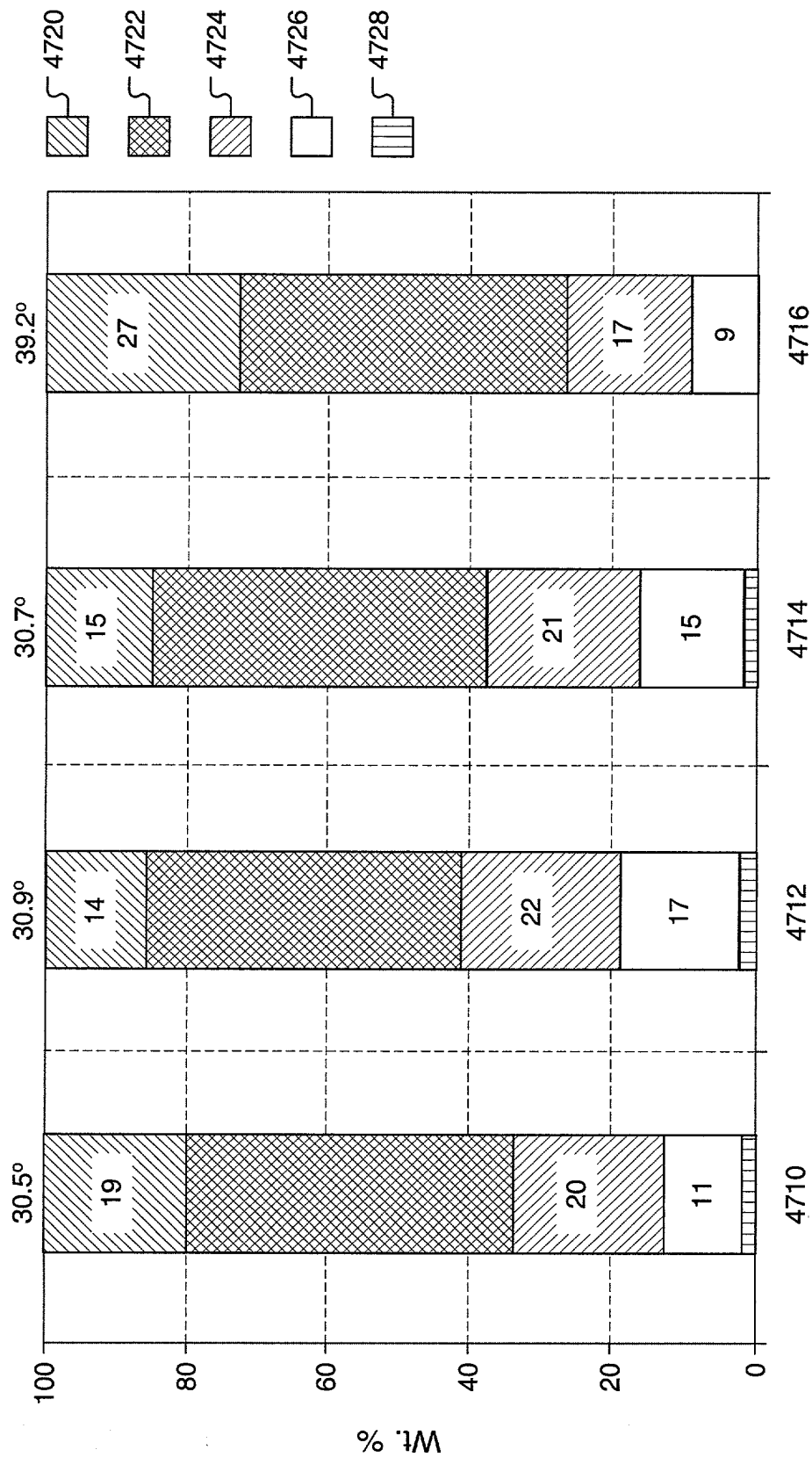


FIG. 169

104240" 000T4860

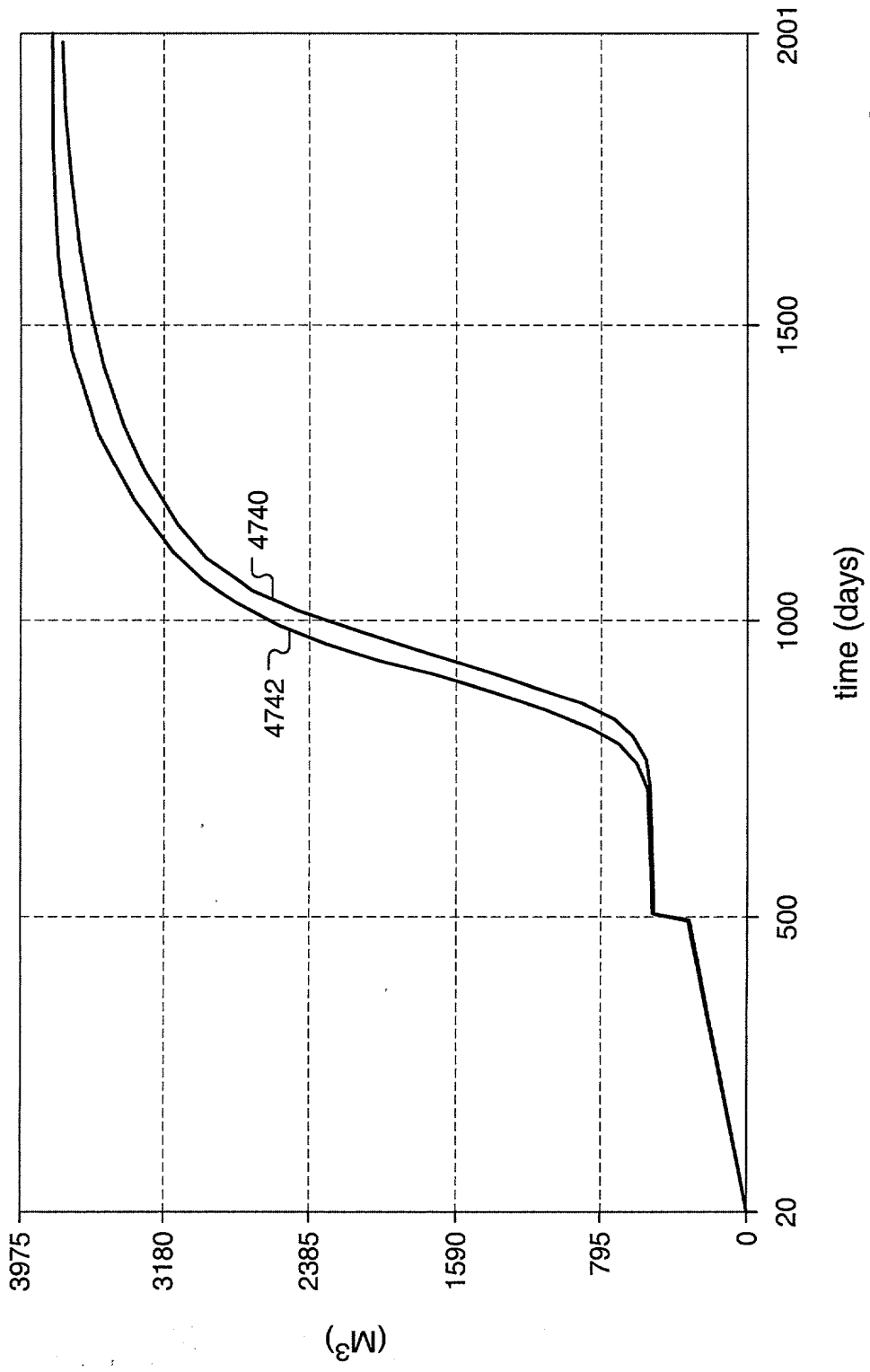


FIG. 170

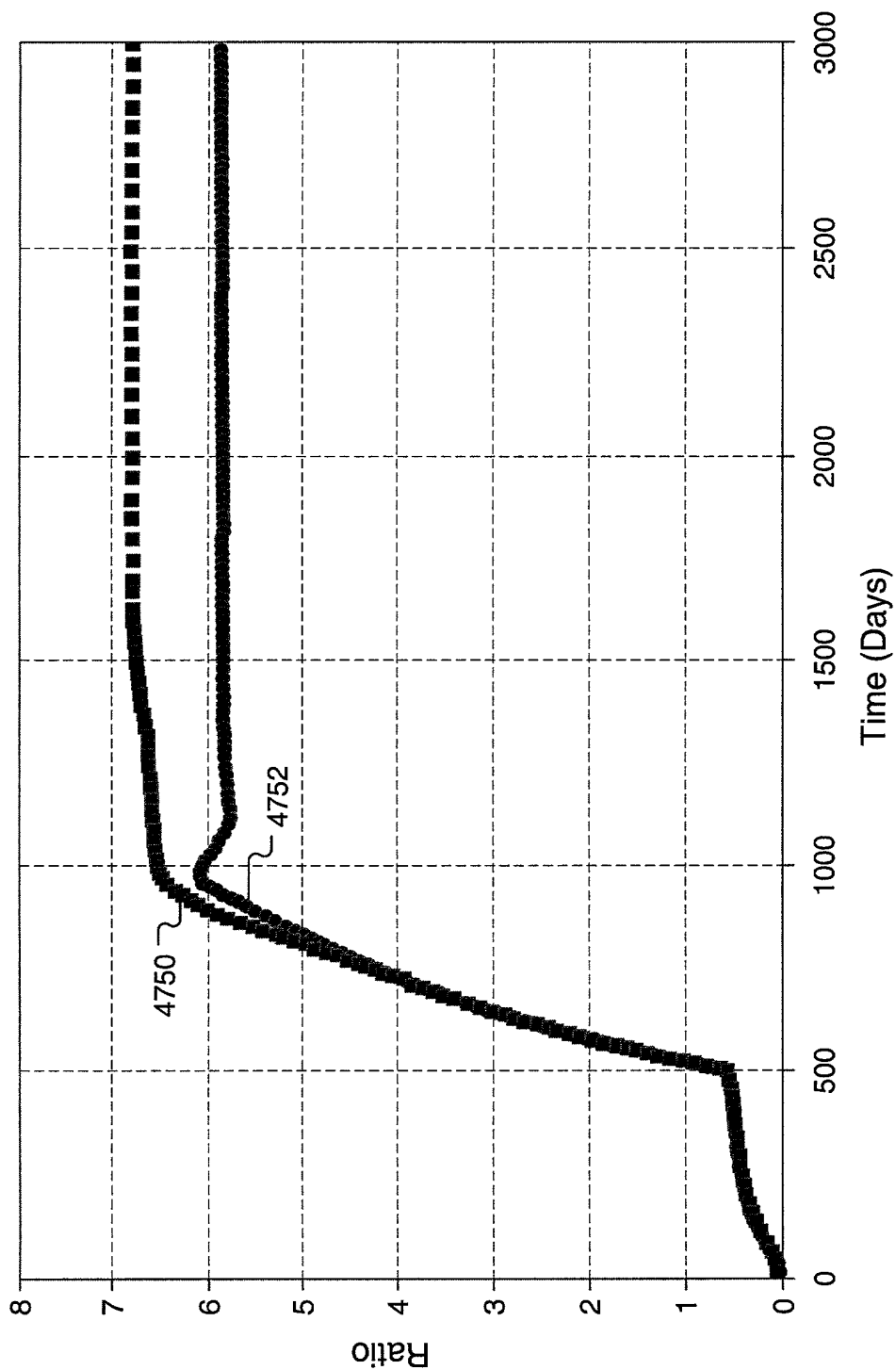


FIG. 171

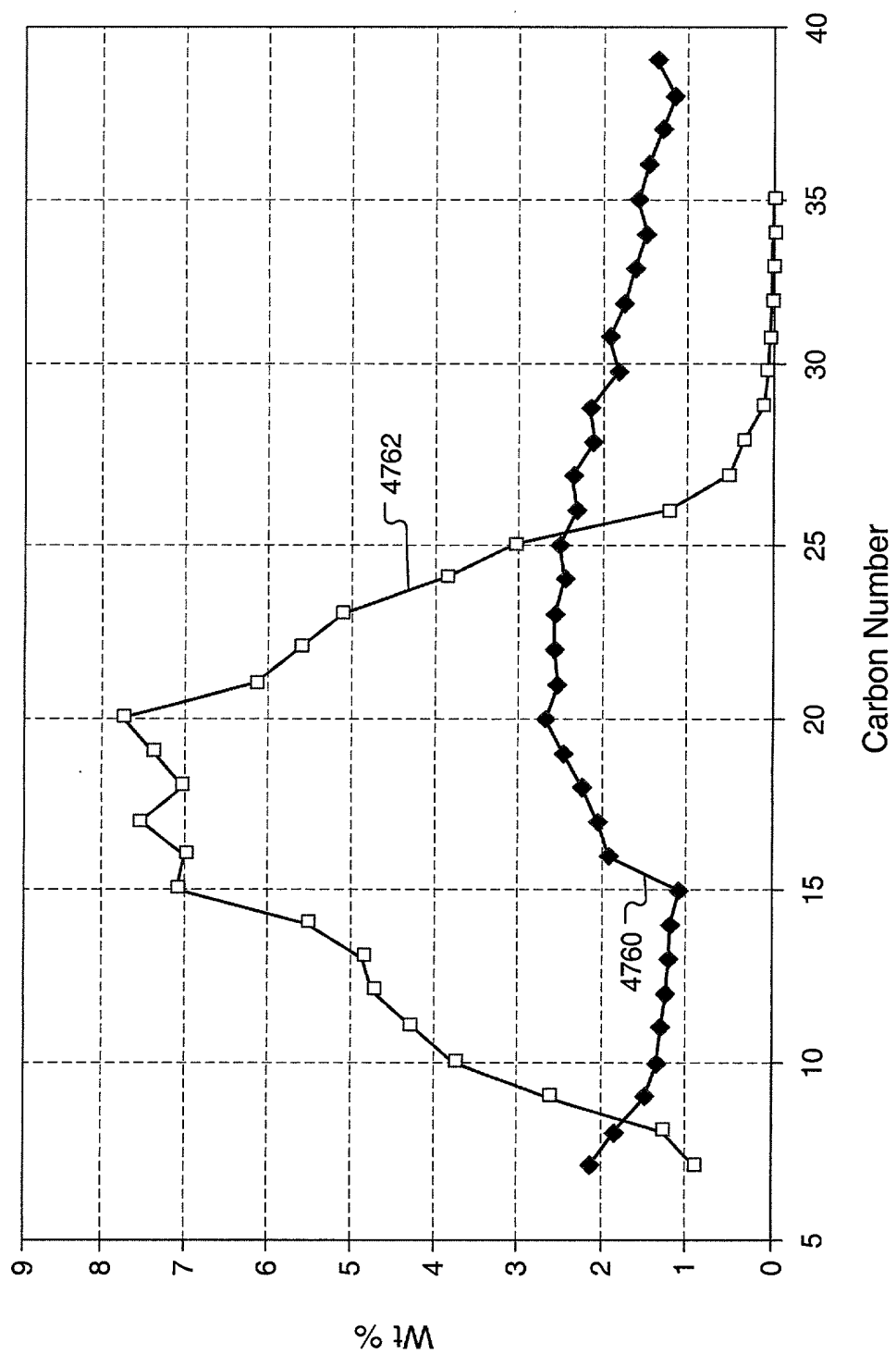


FIG. 172

T04240" 000T4350

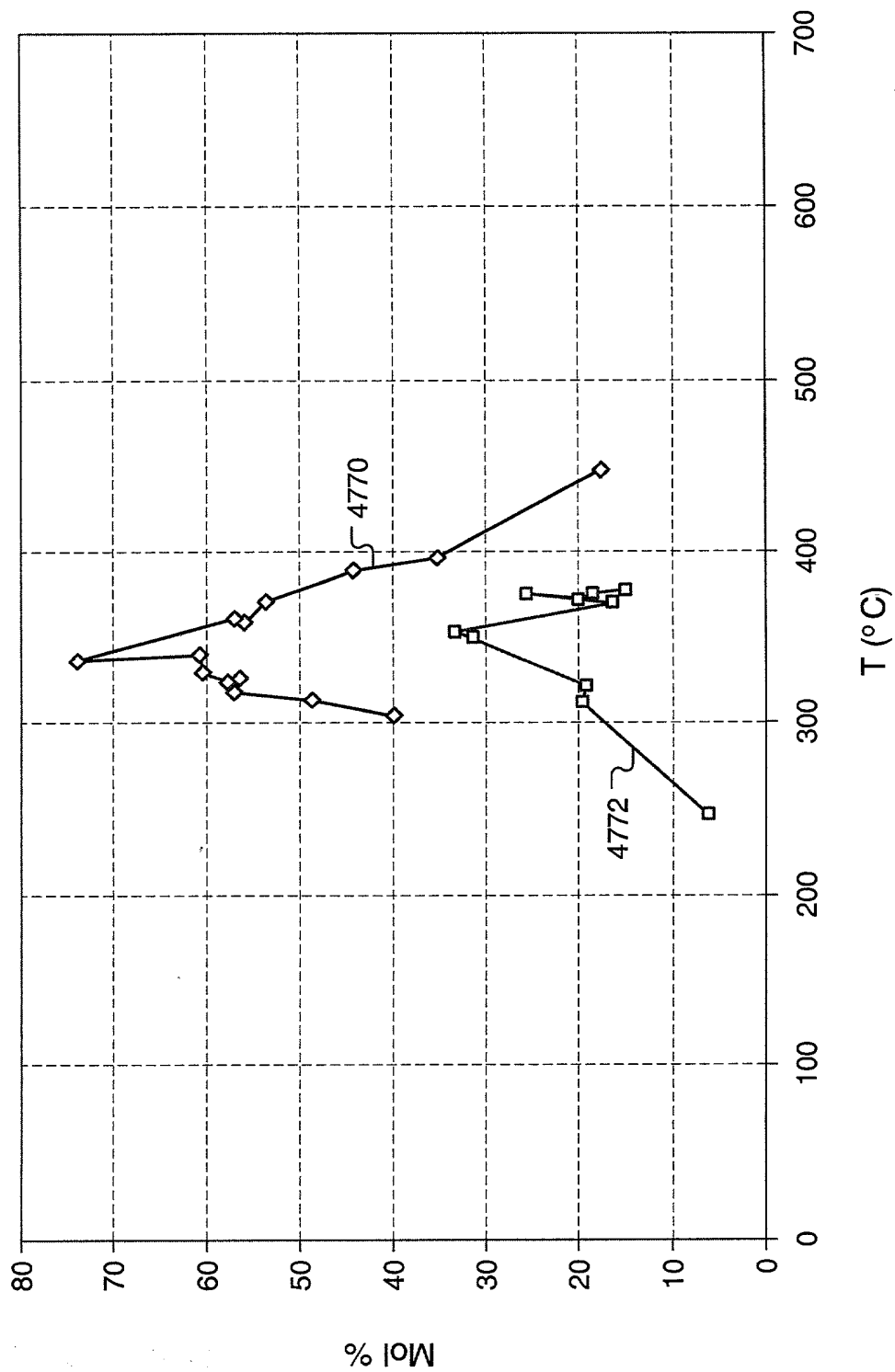


FIG. 173

T04240"000F4360

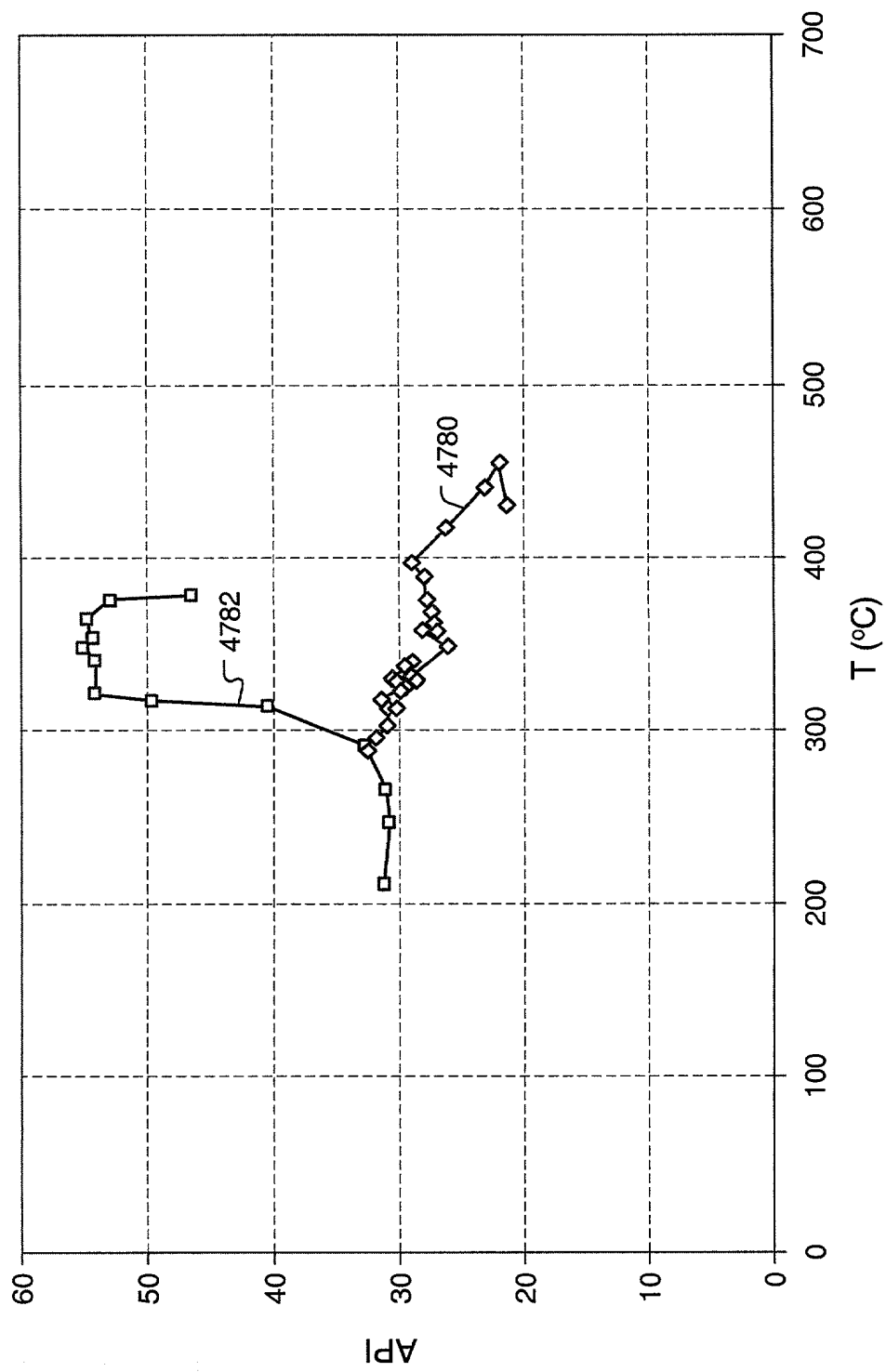
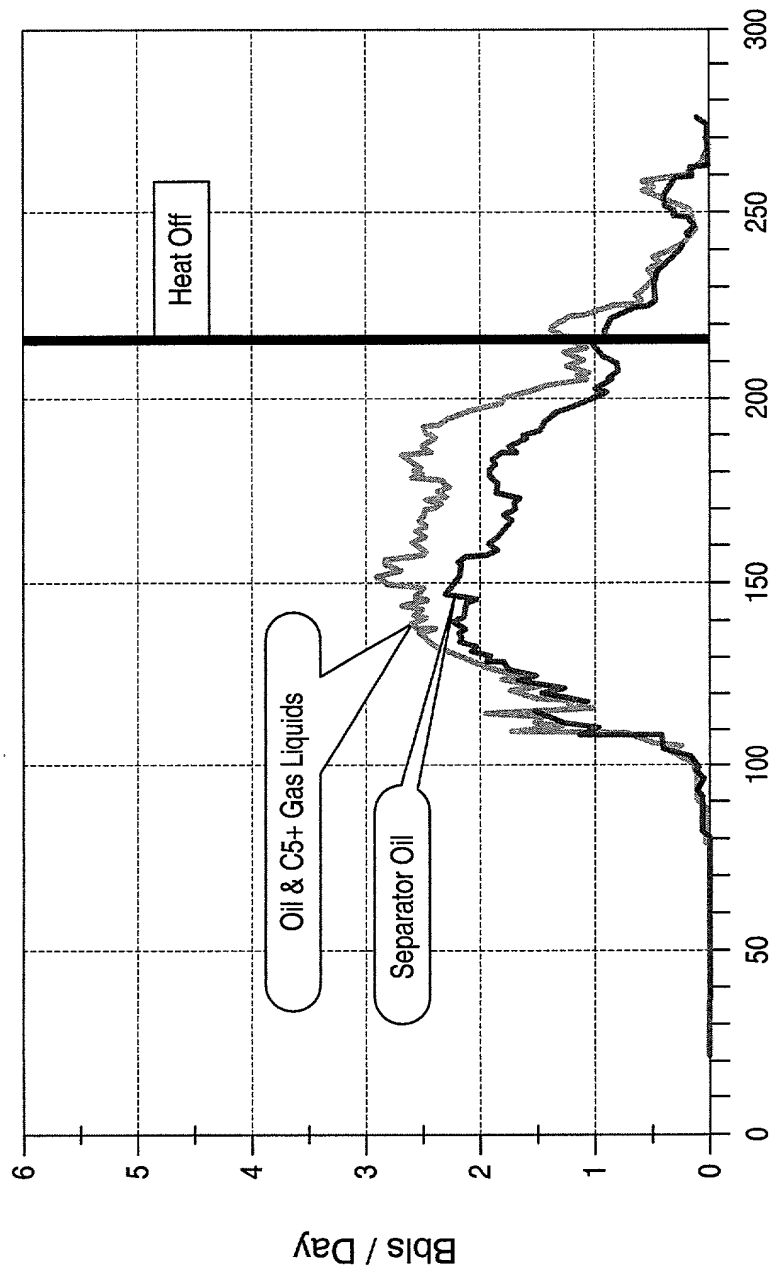


FIG. 174

104240" 000T4850



Days From Start of Heat Injection

FIG. 175

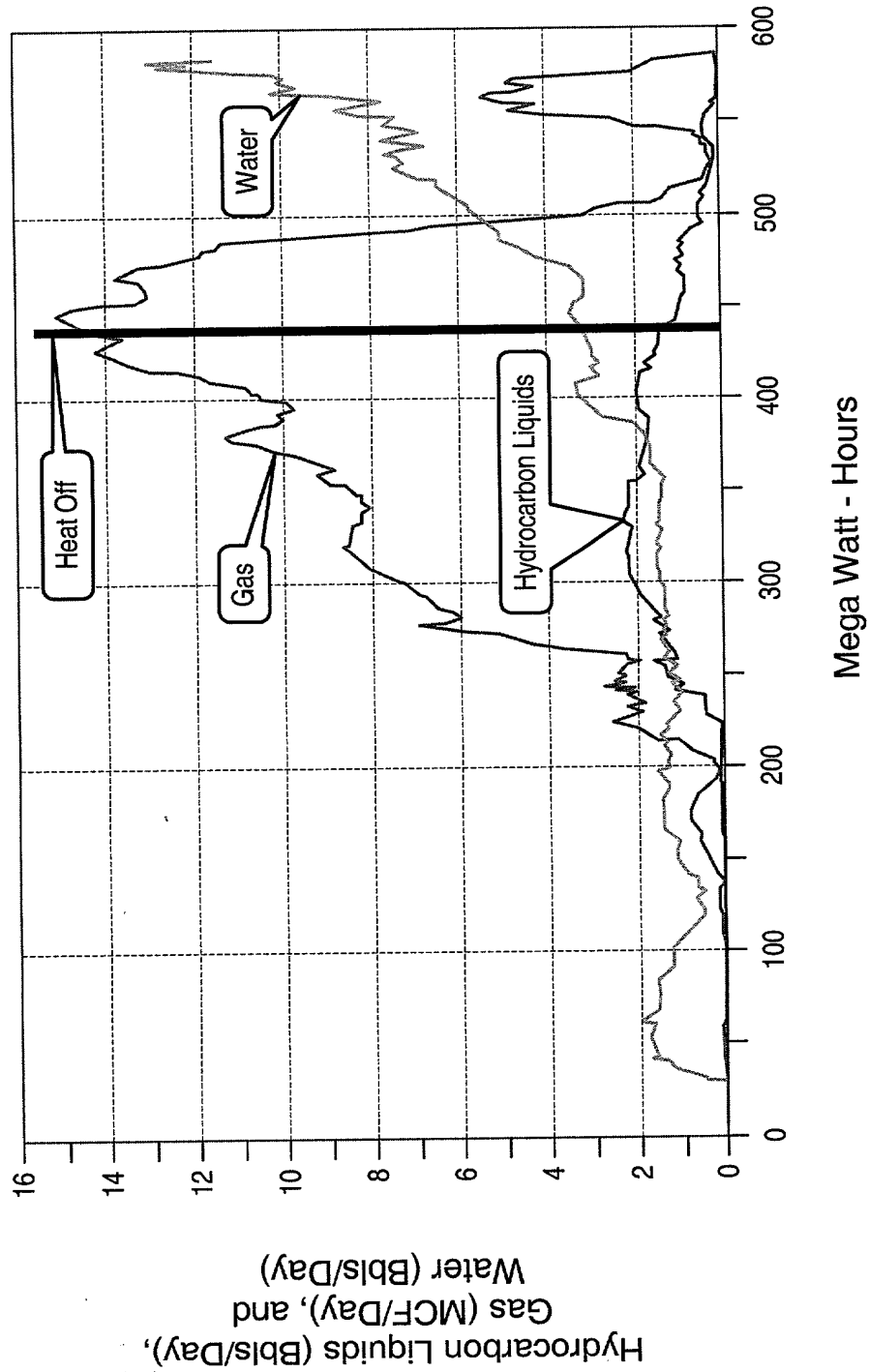


FIG. 176

T04240"000T4860

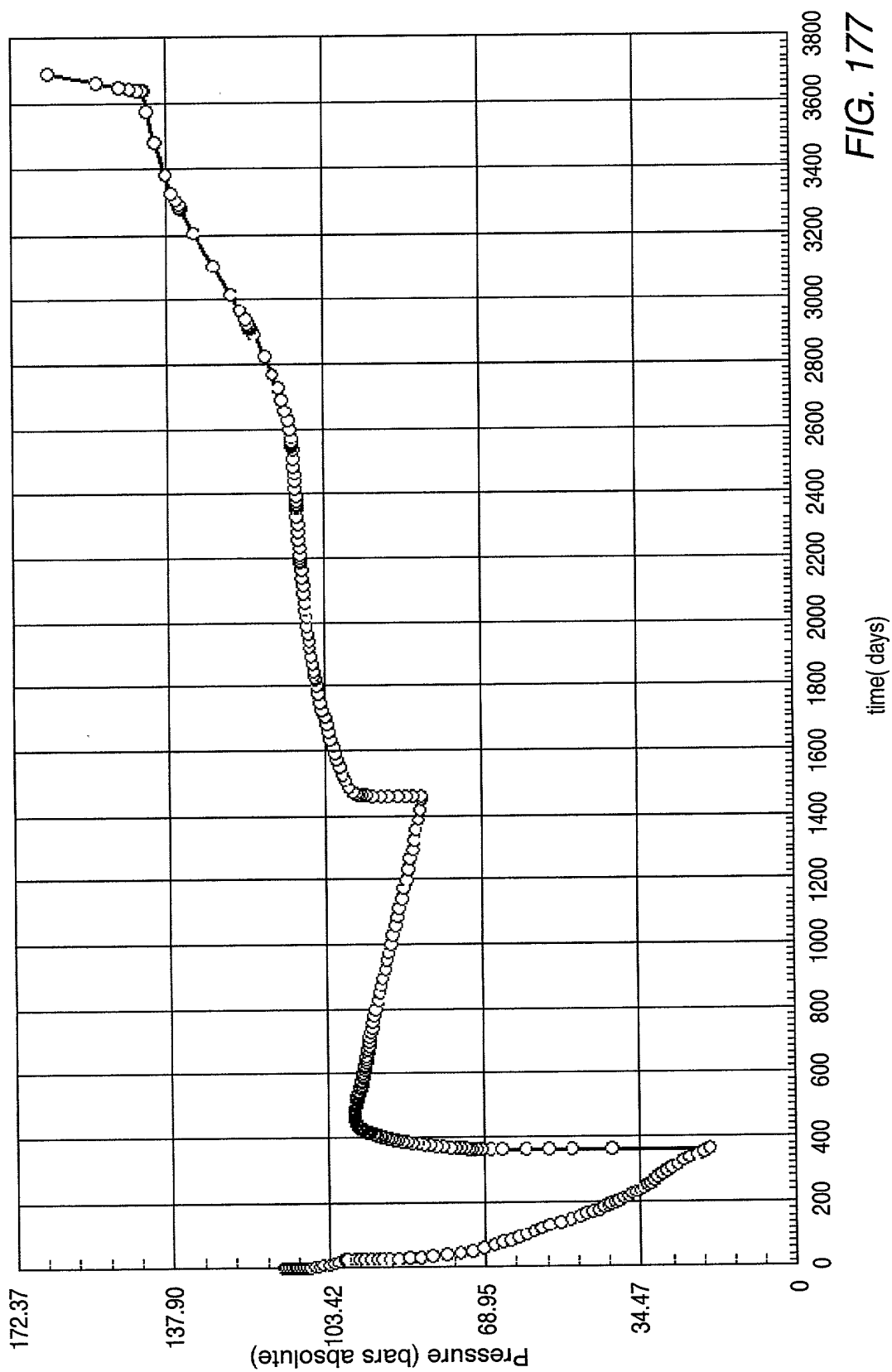


FIG. 177

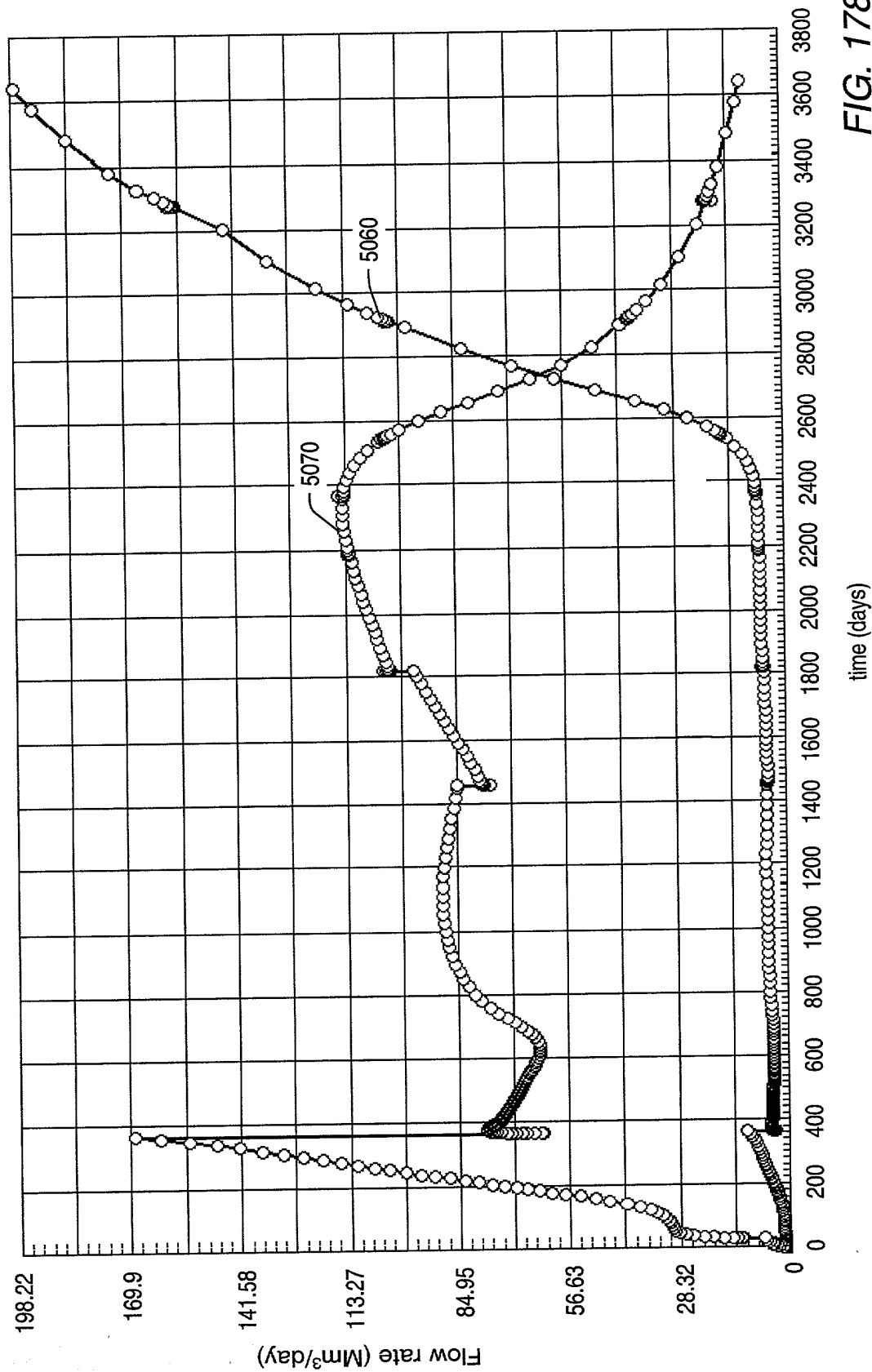


FIG. 178

FOH240" 000T4860

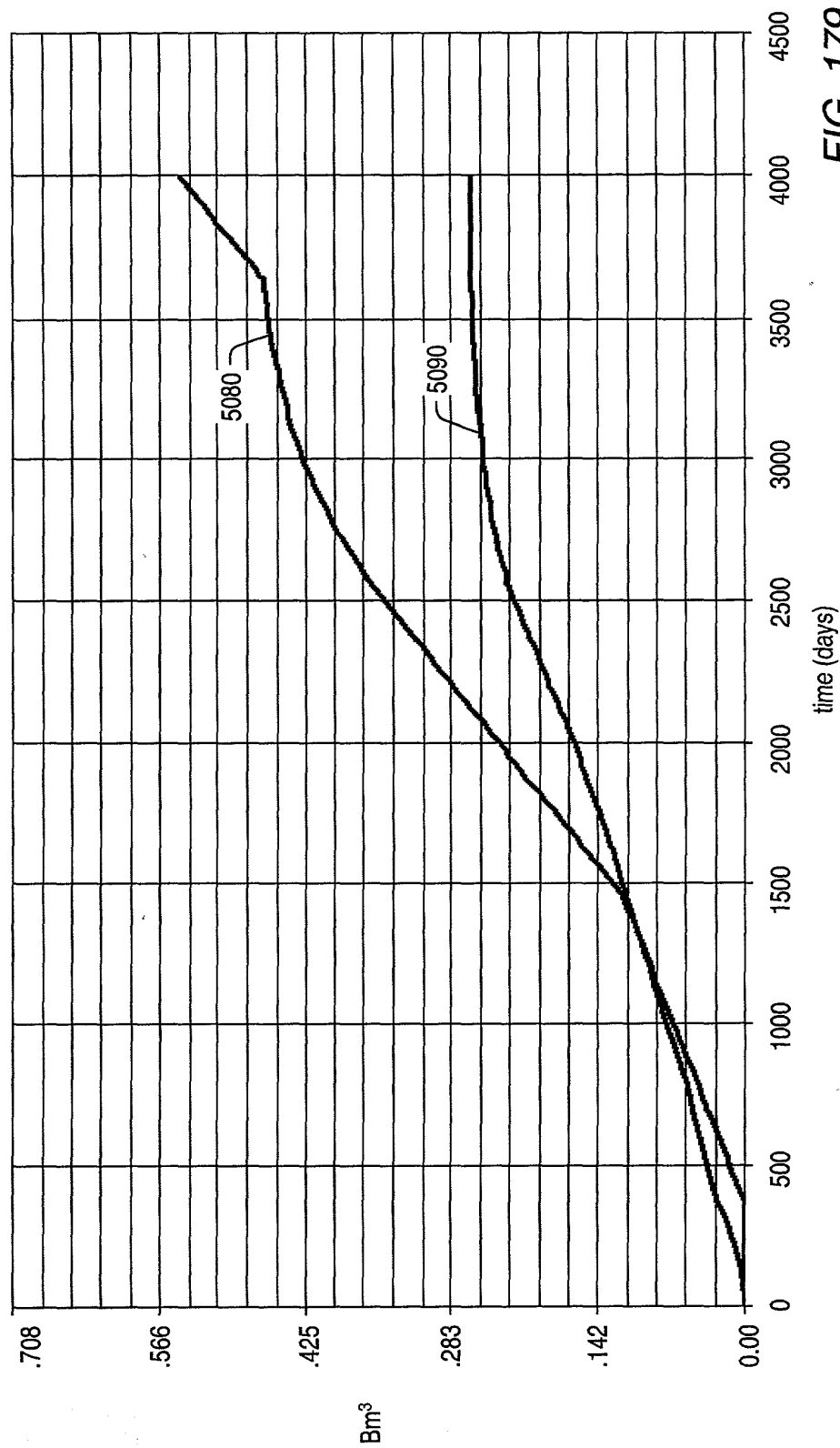


FIG. 179

Figure 180 is a line graph showing the relationship between Pressure (bars absolute) on the Y-axis and time (days) on the X-axis. The Y-axis ranges from 0 to 68.95 bars absolute, with major grid lines every 13.79 bars. The X-axis ranges from 0 to 3800 days, with major grid lines every 200 days. The data points, represented by open circles, show a curve that starts at approximately 1.5 bars at day 0, rises to about 13.79 bars by day 400, then continues to rise more steeply, reaching approximately 68.95 bars by day 3800. The curve shows a distinct change in slope around day 2800.

time (days)

T04240" 00074860

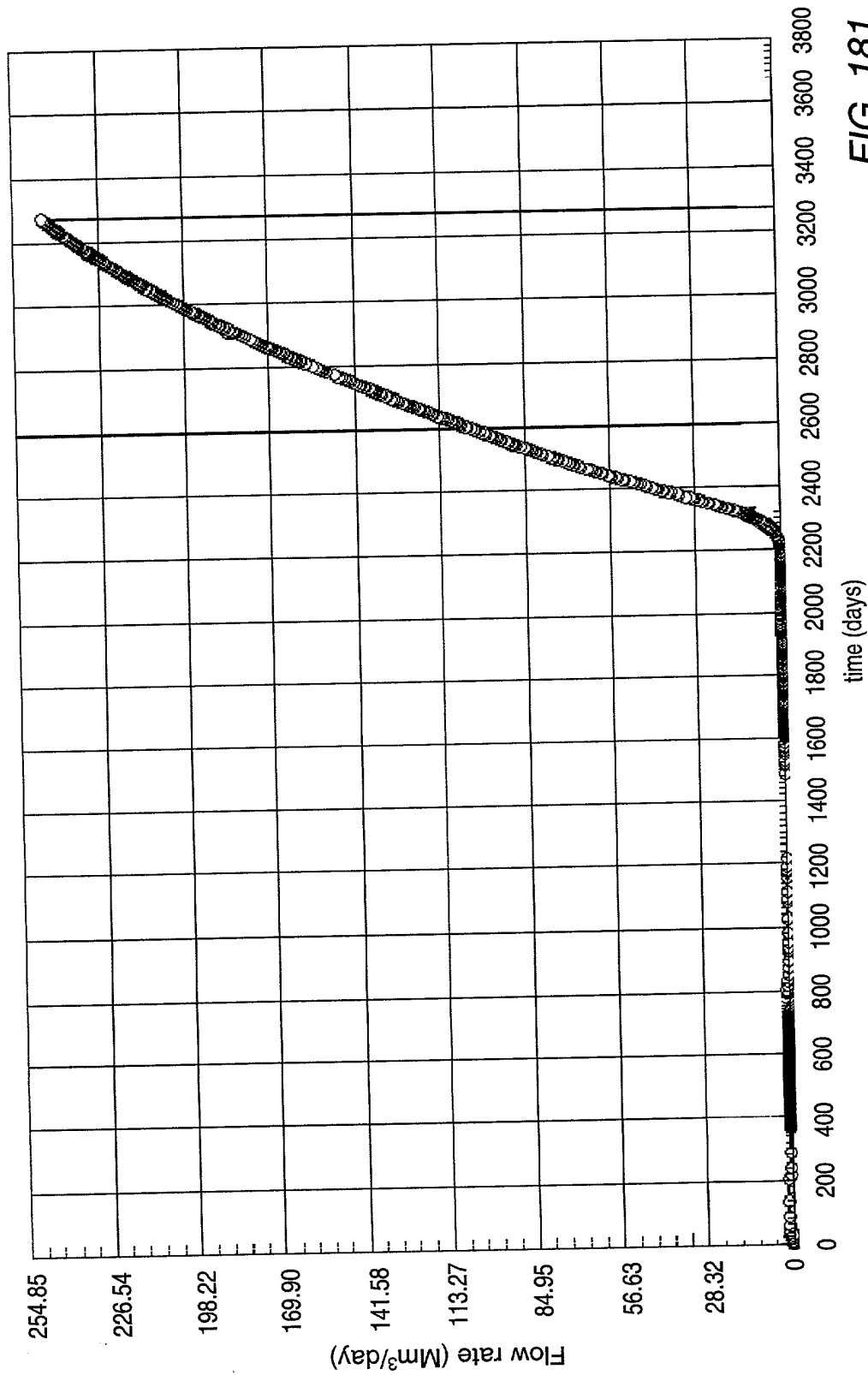


FIG. 181

T04240" 000T4360

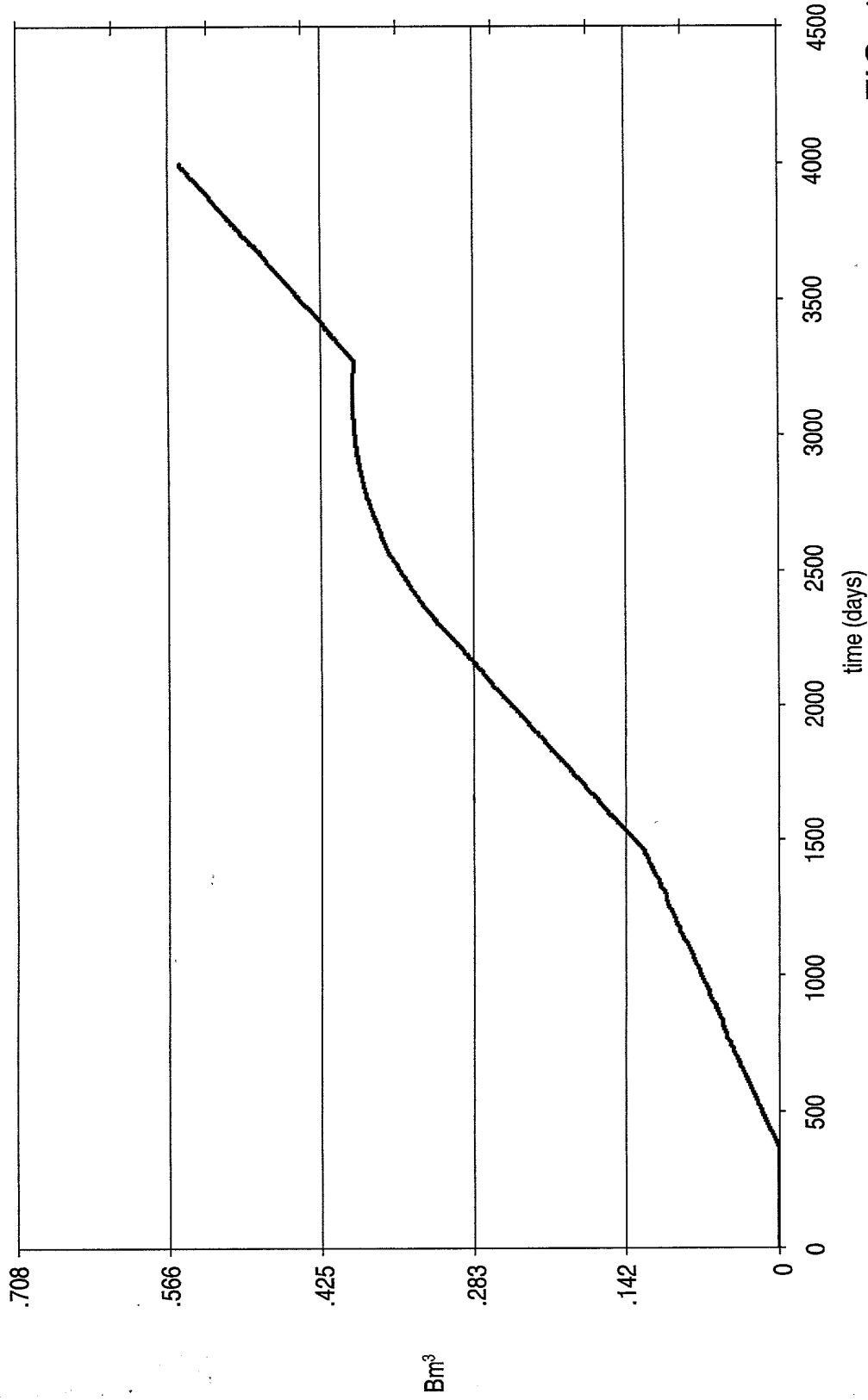


FIG. 182